

THE
AMERICAN PRACTITIONER:

A MONTHLY JOURNAL OF.

MEDICINE AND SURGERY.

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MEDICINE AND SURGERY.


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THE AMERICAN PRACTITIONER.

DECEMBER, 1872.

Certainly it is excellent discipline for an author to feel that he must say all he has to say in the fewest possible words, or his reader is sure to skip them; and in the plainest possible words, or his reader will certainly misunderstand them. Generally, also, a downright fact may be told in a plain way; and we want downright facts at present more than anything else.—RUSKIN.

Original Communications.

ACNE.*

BY L. D. BULKLEY, A. M., M. D.,

Editor and Translator of Neumann's Hand-Book of Skin Diseases, etc.

If there be any need of apology for calling your attention this evening to the very common disease acne, it will be found in its frequency on the one hand, and its obstinacy on the other; and if by our researches, and the discussion subsequently evoked, we shall bring to light any new facts, or any that may have been forgotten, as to its practical management, our time will not have been unprofitably spent.

I need but mention its intractability to recall to every one cases which have long baffled their best endeavors, while the general feeling on the part of physicians and the public of the uselessness of treatment in this affection shows that we need yet make great advances to bring its therapeutics up to the present standing of medical knowledge. It has been

* Read before the New York Academy of Medicine, October 17, 1872.

called an *opprobrium medicinæ*; and Bazin says that "by its persistence, its rebellious character, and its location upon the exposed parts, it frequently disheartens both doctor and patient;" as the experience of many will bear witness.

As regards the frequency with which it appears for treatment, J. L. Milton gives 169 cases in 1,000 of miscellaneous cutaneous diseases in Mr. Erasmus Wilson's practice. In the same number treated at the St. John's Hospital there were but 61; and in 1,016 cases treated at the London Hospital for Skin Diseases there were 76 of acne. McCall Anderson gives 355 in 10,000 hospital cases, and 86 per thousand of his private patients. In making these statistics I have included all the diseases of the sebaceous glands, which, it will be seen, I class under the generic term acne.

Of somewhat over nine hundred recorded skin cases occurring in the private practice of my father, the late Dr. H. D. Bulkley, and myself, there were 164 of acne, 33 of which were under my care. This gives a rate of 180 per thousand, or nearly one fifth of the whole, Mr. Wilson's ratio being about one sixth. Eczema constitutes nearly one third of this class of cases appealing to the physician for relief; psoriasis with Mr. Wilson, Mr. Milton, and myself coming after acne in frequency. So that the disease before us is the most frequent affection of the skin, after eczema in its varied forms—surely worthy of our closest study.

To a proper understanding of the morbid changes which we class together under acne, we must briefly refer to the classification of skin diseases.

The arrangement which I have adopted for practical purposes is a modification of that of Willan, releasing certain diseases from his orders and forming them into independent *natural orders*; thus retaining his divisions of exanthemata, embracing erythema, roseola, erysipelas, etc.; squamæ, papulæ, vesiculæ, and so on. I make three additional classes: syphilides, diseases of the glands and appendages of the skin,

and parasitic diseases; under the second of which I place acne, embracing all affections of the sebaceous glands. This plan has very little new in it, but is used and recommended solely on account of its simplicity; and because adopting, as it does, the divisions and terms familiar to all, it affords, I think, the readiest means for recording cases, and one much more likely to be understood and employed than the intricate pathologico-anatomical system of Hebra, or equally puzzling "clinical classification" of Wilson.

Considerable difference of opinion exists as to the number of varieties of acne and their names, also as to what diseases should be included under this title. Some idea of this may be gained from the fact that thirty-four species are enumerated by twenty-eight writers on the subject, besides many names which have been applied to affections which we class under this one head. Thus Bazin makes sixteen forms of acne, while Gibert, Rayer, Simon, Pleinhaus, Thomson, Milton, and Liveing give but two—acne simplex and rosacea. Some, especially the French school, include under the title acne sebacea the disorder often known as seborrhœa or stearrhœa, while the English and German schools place the latter among the anomalies of secretion, separating acne punctata again from our list, under the names nidium and comedo. Others still refuse to include acne rosacea in this class, and Wilson has ranked it among his eczematous affections with the name gutta rosacea.

Now all these are to us so plainly diseases of the sebaceous glands, and are so commonly found associated or following each other, that we prefer to embrace all the cutaneous eruptions arising from disorder of these structures in one group, with the generic title acne. We will then have two primary subdivisions of the disease: first, when the secretory and excretory functions are involved alone; and second, when the follicles are inflamed with the surrounding tissues from causes to be regarded later on. The classification of these, which

we have found serviceable on account of its clearness as well as comprehensiveness, is founded on the original divisions of Bateneau, with a few additions. The following is a tabular presentation of it:

		ACNE.	
First Order. Due to a faulty secretion or excretion of the se- baceous glands. . .	1. Acne sebacea	{ oleosa. cerea. cornea. exsiccata-xeroderma.	
	2. Acne punctata	{ comedo. miliun. contagiosum.	
	3. Acne molluscum	{ non-contagiosum } sessile. pendulum.	
Second Order. Due to inflammation of the sebaceous glands, with the surrounding tissue.	4. Acne simplex.		
	5. Acne indurata.		
	6. Acne rosacea.		

This seems to embrace all the forms of disease which could come under this head, while its simplicity makes it a convenient form on which to collect clinical data.

The first variety, *acne sebacea*, represents the disease known as seborrhœa or stearrhœa, an abnormal state of the secretion; not attended, however, with any retention of it, as in the other cases. There are four forms of this: 1. *Acne sebacea oleosa*, when the secretion is excessive and remains liquid, giving the unctuous appearance and feeling found in many on the forehead and nose, and also about the shoulders and breast; 2. *Acne sebacea cerea*, in which the secretion dries on the surface into scales and crusts of variable thickness, which fall off or are easily removed, but soon return. This in a mild form constitutes a good deal of the dandruff so annoying and obstinate. As a consequence of this exsiccation of the sebura the hair fails to receive its proper lubrication, and becomes hard and dry. This variety may be attended with reddening of the skin, and, occurring on the face and nose, may be transformed into *acne rosacea*, of which I have at present an instance under my care in the person of a gentleman aged about fifty. 3. *Acne sebacea cornea*. When this sebaceous

secretion is not removed, and still increases, becoming more and more hardened, we have the next variety, which is rarer. In this the masses adhere at times very firmly, and acquire a somewhat altered character from the inflammatory products which become mingled with them. When forcibly removed plugs of sebum are seen projecting from their under-surface, which have been drawn from the distended follicles. These crusts are quite different from those of eczema, in that they can be kneaded into any shape, while the products of exudatory inflammation are friable. An old gentleman, about ninety years of age, has come to my office periodically for some time to have such crusts removed from his nose. He will not use treatment to prevent their re-forming. This forms the disease described by Wilson under the name *ichthyosis sebacea*. 4. *Acne sebacea exsiccata*. The fourth variety is where the sebaceous secretion is disordered in being scanty or altogether absent. This is the xerosis of Neumann and xeroderma of Wilson. I have had two remarkable cases of this under my care, where the skin of nearly the whole body was very dry and harsh, scaling at times, and in both of which the perspiratory secretion was also at fault. One was a girl aged thirteen, the other a boy about three, in both of which the disease had lasted since infancy. The condition of the skin is quite different from eczema on the one hand and *ichthyosis* on the other.

The whole class of *acne sebacea* forms a small proportion of the one hundred and sixty-four cases analyzed in this paper, there being but fifteen in which this condition was noted; in nine cases alone, in four associated with *acne simplex*, once with *acne punctata*, and once with the *rosaceous* form.

Our second variety, *acne punctata*, will be seen to embrace both *milium* and *comedo*, which terms it is well enough to retain when speaking of the elements of the disease; thus, the *comedones* of *acne punctata*. These latter are the little

black specks seen on many faces, and represent hardened plugs of sebaceous matter, which for some reason have failed to be secreted and poured out in the proper manner, and whose outer ends have become hardened by contact with the atmosphere and dust. Within these little cylinders of sebum, which may be squeezed from the follicles, we find, on mixing with oil and placing under the microscope, numerous minute hairs, and not infrequently the parasite of the hair-sac, the *acarus* or *steatozoon folliculorum*. The fact that there is a parasite in this location, and the appearance of the expressed masses with black heads and long bodies, has given rise to the popular impression that the whole mass is an animal, and they are hence called worms or grubs. The true parasite, however, is excessively minute, from $\frac{1}{138}$ to $\frac{1}{64}$ of an inch in length, and $\frac{1}{888}$ of an inch in breadth, according to Wilson. As many as fifteen have been seen in one follicle in apparently healthy skin. The other form of the punctate variety is more commonly known as milium, grutum, strophulus albidus, or acne albida. Here the orifice is occluded while the secretion accumulates, or rather the cell element of the secretion, and we have the little pearly bodies seen about the eyelids and also the genitals. They are of little pathological significance, but when inflamed they produce a papule or pustule of acne simplex.

This acne punctata is so commonly associated with the other forms, and is in itself, as a rule, so trifling, that it seldom occurs alone in the case-book. There were none so entered with us, although it is found mentioned in twenty-two cases: once associated with acne sebacea, seventeen times with acne simplex, twice with acne indurata, and twice with acne simplex and indurata together. I would restrict the term acne punctata to the forms here given, and not apply it, as some do, to an inflammatory papule or pustule with a comedo in the center. Then the affection becomes acne simplex, adding punctata if you choose.

The third form of acne of this first order is more commonly known under the name *molluscum alone*, or *acne varioliformis*, or *acné molluscoïde* of the French school. This embraces two species, the contagious and the non-contagious, and the latter may be sessile or pedunculated. The contagious form is pretty firmly established, quite a majority of dermatologists believing in its existence; although Wilson, Tilbury Fox, and others will not give a decided opinion either way, not having succeeded with artificial inoculations of the contents. Dr. Living (British Medical Journal, January, 1872) reports five cases occurring in one family successively, and in such a manner as to point strongly to contagion.

Our second or inflammatory order of acne embraces the three forms more generally known by this name—*acne simplex*, *indurata*, and *rosacea*—and which are very often found associated with those already mentioned.

Acne simplex represents by far the larger part of all the cases. With us there were 52 noted as *simplex* alone, 4 associated with *acne sebacea*, 17 with *acne punctata*, 16 with *acne indurata*, 2 with *acne punctata* and *indurata* combined, and 7 in connection with *acne rosacea*, making a total of 98 in 164, or more than half. Many names have been given to this form of eruption; thus, Neumann uses the term *acne disseminata*, subdividing it into *acne vulgaris*, *frontalis*, *cacheticorum*, and *artificialis*. Wilson has an *acne coniformis*, *pustulosa*, and *tuberculata* to indicate the different stages. Some have made use of the designation *juvenilis*, as indicating its liability to attack the young. *Acne vulgaris* is made by Hebra to include *acne punctata*, *pustulosa*, *hordeolatus*, and *indurata*. To us it seems more convenient clinically to separate the forms as before given, whereby *acne simplex* is made to include the majority of ordinary cases, where there are few or many distinct papules or pustules, without any reference to their cause or distribution; though of course the words *artificialis*, *cacheticorum*, *disseminata*, *frontalis*, etc., may be used in

addition, being careful to remember the clinical resemblances and distinctions.

Acne indurata to us does not represent merely an inflammatory state of the pustules of the simplex variety, but rather those cases where the nodules are large, embracing many glands, and where the softening takes place slowly, involving a considerable extent of tissue, and discharging always an appreciable, sometimes a large, amount of unhealthy pus; and which, moreover, occasionally leave cicatrices very disfiguring. This form of acne is almost constantly associated with the strumous diathesis, where the tendency to pus formation is out of proportion to the intensity of the inflammation. In patients with acne indurata the skin is thick and doughy, and there is generally a greasy condition of skin, which characterizes acne sebacea oleosa. Comedones are also frequent. Of our cases 9 had the indurated form alone, 16 in connection with the simplex variety, 2 with the punctate, 2 with simple and punctate combined, and 4 with acne rosacea; in all 33.

Acne rosacea, or gutta rosea, is quite a different disease from those already given, although it may be associated with any or all the forms, and is, in my opinion, a true acne; that is, a disease having to do with inflammation of the sebaceous glands and the surrounding tissue. In our analysis there appear 40 cases having acne rosacea alone, and 12 combined with other forms; a total of 52.

We can not include sycosis under the head of acne, as some have done, with the name acne mentagra; for we consider sycosis but a general name for a dermal inflammation in the bearded chin; possibly a true acne in some cases, but more generally the result of an eczema or herpes tonsurans, modified here by the size and depth of the hair follicles.

To sum up the relative frequency of the different forms of acne, of 164 cases 52, or about one third, had acne simplex alone; 40, or one fourth, had acne rosacea only; 9 were of acne indurata; 9 with acne sebacea alone; and the remaining

54 the various forms combined. Acne simplex was seen in 98 instances, acne rosacea in 52, acne indurata in 33, acne punctata in 22, and acne sebacea in 15.

Anatomy. Three different states of the follicle, or rather degrees of the disease, are found in acne punctata or comedo. In the first the orifice only of the duct is filled with dried sebum for a short distance, and we express a little conical plug, which comes out easily. When this state has lasted longer the whole canal to a varying depth becomes uniformly dilated, and a long cylinder is forced out on lateral pressure, also without much difficulty. If this is not done, and the orifice remains plugged, secretion going on, the whole excretory duct is distended, and even the gland itself involved; and the latter, losing its acerious structure, assists in making the inverted pear-shaped cavity which is loaded with the products of the sebaceous secretion. This inspissated mass sometimes comes out only after enlarging the opening of the duct artificially. If now these are irritated by attempting unsuccessfully to remove them, or if by their size and hardness they exert undue pressure upon the adjoining tissues, inflammatory action ensues, and nature attempts to expel the offending particle, as in the case of any foreign body, by a suppurative action, which softening, the hardened mass allows its passage. This is one method of the formation of acne simplex and indurata, but not the only one, nor do I think it the most frequent; for we find many papules and pustules without this core of sebum, and the large masses of the indurated form, as a rule, have not this origin, nor has the diffuse reddening of acne rosacea. In this the pustules appear often to be secondary. Here our anatomical knowledge ends, and clinical history and general pathology must furnish the rest. As already stated, we find the elements of acne simplex, indurata, and rosacea appearing without any apparent formation of comedones; and we must suppose that either there is a deep engorgement of the sebaceous glands from similar irritation of retained sebum, which

can not find exit on account of the small caliber of the hair follicle into which they open, or that there occurs a direct idiopathic inflammation of the glands themselves. Both are quite probable, especially the latter, remembering the acute inflammations of the parotid and mammary glands, likewise the liver, which have a similar racemose structure. When speaking of the etiology we will mention the many causes which may well be charged with this. It is not thought that the parasite found in the follicles has any influence in developing the disease. In milium the orifice of the gland becomes completely closed, and a section through one of these minute sebaceous tumors shows that the acerious structure of the gland is entirely lost, and there is but a mass of cells, with a delicate fibrous stroma, running through and among them.

The anatomy of *acne molluscum* has been more carefully studied. Both the contagious and non-contagious varieties are found to have their origin in the sebaceous glands; hence the appropriateness of placing them under the generic term *acne* as representing disorders of these elements. These must be distinguished from quite a different affection—*molluscum fibrosum*, as it is called—in which the tumors are composed of fibrous tissue developed about the hair follicles, and are not sebaceous cysts, as are the two forms of the *acne molluscum*. These latter resemble each other anatomically, with the exception that the non-contagious variety consists of closed sacs, while the contagious have a small opening through which a milky or cheesy matter can be squeezed. The former are not very uncommon. The contents may be soft and curdy, or may have undergone absorption of their fluid portion, leaving a cheesy or even a hard and friable mass. They are generally quite movable, and more often sessile than pendulous. I lately removed one of these, nearly the size of a hazel-nut, from the eyebrow of a young gentleman about eighteen years of age. On section and pressure a pasty, yellowish-brown fluid appeared, with a foul odor. It had been punctured twice

previously, once in infancy, but returned in a year or two. I removed the capsule entire. Pardon (*Archiv. für Dermatologie und Syphilis*, Vol. I., p. 104) gives a similar case, in a girl sixteen years old, with several such on the left side of the neck and arm. The matter could not be inoculated.

The contagious acne molluscum, as before stated, has an external orifice, from which oozes or is pressed, from time to time, a milky or a thick pultaceous fluid. Ebert (*Archiv. für Dermatologie und Syphilis*, Vol. II., p. 86) gives a case of a girl, fourteen years old, whose face was covered with one hundred and eight little tumors, from the size of a millet-seed to a hazel or walnut. A sebaceous-like mass could be pressed from their orifices, and the disease was communicated to three children occupying neighboring beds, and who came in contact with her. Wilson describes this in a similar manner with reference to the central aperture, and says that the inspissated mass was identical with that found in comedones. Tilbury Fox gives a like account; and, although reserving his final opinion as to its communicability, says he has "seen a mother and child, and a whole family of children, affected in such a way as to be inexplicable, with our present knowledge, save by the contagiousness of the disease." I had one such case, with a tumor located at the outer angle of the left eye, from which a milky fluid could be pressed. I could obtain no history of contagion. The whole gland is found to be involved in these tumors, which are sometimes lobulated, and are crossed by fibrous bands. The cells contained are similar to those composing the epithelial lining.

Zeissl (*Archiv. für Dermatologie und Syphilis*, Vol. I., p. 57) has described an affection, "the so-called subcutaneous condyloma," or endo-follicular condyloma, in which there were pale-white or rose-pink elevations about the genitals and thighs down to the knees, and from an opening in which a sebaceous material could be expressed. They were found to consist in an excessive hypertrophy of the glandular portion

of the follicle, and were perhaps another form of molluscum contagiosum.

In *acne rosacea* the capillaries are found much dilated, and a fibrinous deposit around them and the sebaceous glands is not infrequent. Sometimes this proceeds to such an extent that the parts become really hypertrophied—the nose, for instance—even to an enormous size. This is the *acne hypertrophica* of some writers.

Etiology. In the matter of the causation of acne I must depart very widely from the German school, which is tending so strongly to a local origin in many skin diseases; a result perhaps of too exclusive specialism, and a great measure of temporary success in the use of topical remedies, which again follows from the personal attention given to their application in public and private hospitals. It seems to us that there is no disease of the skin which so forcibly demonstrates the necessity of rescuing cutaneous affections from the domain of surgery, and regarding them from a physician's standpoint, as does the disease we are now considering. To treat acne scientifically and successfully we must recognize and treat the cause, and to do this we must be careful medical investigators.

With regard then to the agencies producing acne, we are decidedly impressed with the internal or constitutional origin of by far the greater number of cases. Of those here analyzed 115, or nearly three fourths, were recorded as connected with digestive and sexual disorders. In 18 the notes were imperfect, while only 7 were attributed in any way to external agencies. One of acne indurata followed the use of "Rimmel's powder;" another, of the same variety, was in a lady who used "lily-white;" and a case of acne simplex apparently resulted from the application of "Oriental cream." Three also were in persons much exposed to the wind, two of acne rosacea, one acne sebacea, and finally one case of acne rosacea from the effects of sunburn. But 24 of the whole number

were alleged to be healthy in every other respect. Of the 115 in whom internal causes were noted, 68 had constipation, 27 dyspepsia, in 6 the urine was noted as disordered, and 39 females had sexual difficulties.

The female sex is undoubtedly a predisposing cause to acne, not so much because of sexual peculiarities as from their habits and mode of life; that is, they lead more sedentary lives, and are more troubled with dyspepsia and constipation than are males. In the 115 females (nearly three fourths of the whole) 39 had affections peculiar to their sex, indicated by menorrhagia, metrorrhagia, amenorrhœa, dysmenorrhœa, and too frequent menstruation, together with leucorrhœa and ulcerations of the os; and of these thirty-nine 24 had also disorders of the digestive organs. Among other causes or concomitant circumstances we find that ale and wine were freely used in 5 cases, aggravating the trouble; 5 were irregular or high livers, 7 led sedentary lives, many were subject to headache, several occurred in very scrofulous persons, and several cases of acne rosacea appeared about the time of the menopause. In many the eruption was worse at the menstrual epoch.

Here then we have the history of general derangements occurring coincident and in many cases directly connected with the presence of acne in its various forms; and these histories, it will be remembered, were not made with a view to such an inspection as the present, but were compiled in the ordinary run of daily private practice to assist in treatment; and, moreover, some of these records were made twenty-five or even thirty years ago. Further, a perusal of these cases, as also the practice of any observant physician, will show that in a large majority of instances the two classes of symptoms will be found to keep pace with each other, the acne improving as the other symptoms mended, and retrograding likewise with them. How then can so many regard acne and other cutaneous affections as purely local affairs,

and neglect entirely the general condition of the patient, as does Neumann, when he says, "I pass over the long list of much-recommended internal remedies, which are for the most part useless, and speak immediately of the local treatment"? I am convinced of the ultimate connection between acne and the state of the system at large, and appeal to facts, however unable we may be to explain why or how assimilative or generative derangements occasion the morbid states of the sebaceous glands. But I do not wholly ignore external agencies, as will be seen from the following tabulated list of

THE CAUSES OF ACNE, PREDISPOSING AND EXCITING.

1st Order. Secretary Acne.	<ul style="list-style-type: none"> Digestive disorders. Sedentary habits. Sexual derangements. Pubescence. Cosmetics. Exposure to climate. Too great use of soap. Neglect of cleanliness. Contagion, in mollusc. contag. Scrofula. 	2d Order. Inflammatory Acne.	<ul style="list-style-type: none"> Digestive disorders. Sedentary habits. Sexual derangements. Pubescence. Climacteric changes. Irritation of retained sebum. Heat { solar. { artificial. Occupation, stooping. Medical substances { iodine. { bromine. { tar, locally. Hereditability. Gout. Syphilis. Scrofula.

It will be seen here that the first four elements and the last are alike in both classes, while numerous local causes are superadded in each, together with climacteric changes, hereditability, gout, and syphilis in the second. Bazin makes three grand divisions of acne, into scrofulous, arthritic, and syphilitic, which, it will be noticed, exist in the scheme I have presented. While the term *arthritic* has met with opposition, obloquy, and contempt on the part of some, I am constrained clinically to accept the fact that there is a condition of the system associated with an acid dyspepsia, rheumatism, and gout, together with bronchitis and accompanying asthma; in which various eruptions are wont to appear, more especially urticaria, erythema, certain forms of eczema, lichen, and psoriasis, and quite a large number of cases of acne. This I have observed more frequently of late, and on questioning patients with acne find some of the maladies mentioned either present

or having existed in them or in some members of their immediate family. I think the matter will be patent to any who will diligently make the inquiry and carefully note the circumstances.

I can not speak as confidently as some in reference to the influence of pubescence in producing acne. The simplex form has been called *acne juvenilis* by those who consider it belonging to and connected with this state; and Wilson in his latest work, "Lectures on Dermatology," defines it to be "a folliculitis having relation to the augmented function of the hair follicles which takes place at puberty;" hence he is inclined to derive the word from the Greek *ακμή*, *flos ætis*, or blossoming of life. I find also that the impression is very general that most of the forms of acne occur in youth, are a consequence of youth, and will be overgrown. This I do not consider proved, although in a measure correct. Of 80 cases of acne simplex and punctata alone, or associated with other forms, whose ages were given, but 21 occurred in persons under twenty years of age, and 22 between the ages of twenty and twenty-five, or a total of only a little over one half under twenty-five years of age, while 9 were forty or more years old at the time of first treatment with us. This does not seem to show it to be a disease depending on adolescence. The youngest female with acne punctata and simplex was fourteen, the oldest forty-five; average age, twenty-five and three fifths years. Of the males the youngest was fifteen, oldest thirty-nine; average age, twenty-two and a half years. Now, if the eruption were really dependent on the changes which take place at puberty, we should expect the average age in which it was seen in females to be less than that in males. Here it is three years greater, whereas the sexual development is at least three years in advance in the females. I am aware that the proof would be better if the length of time was stated during which the patients had been affected with the eruption, but the records do not give this in enough

cases to establish any fact therefrom. I must state, however, that those cases of simple acne which were associated with the punctate variety alone give a less average age than would be inferred from the above; namely, about twenty years.

With reference to the indurated variety alone, or occurring with other forms, as before mentioned, it is usually seen in lymphatic or strumous patients; and I have noticed a number of cases in those addicted chiefly to malt and vinous liquors. Our cases were 33 in number, of which but 3 were under twenty years of age, 8 between twenty and twenty-five, while 16 were over that age. In 6 the age was not given. The average of the 27 cases gave twenty-nine and two thirds for females and twenty-four years for male patients, making it an eruption of later life than acne simplex.

Acne rosacea is generally considered to be a disease of middle life, and forms a large part of the cases of acne presenting themselves for treatment. Thus of the 164 cases here analyzed 52 (35 females, 17 males) were of this form, either alone or associated with other varieties. Of these fifty-two 18 were forty years of age or over; 9 males, 9 females. The youngest recorded was aged nineteen, and in her the disease resulted from sunburn. There were also females aged twenty-one, twenty-two, twenty-four, twenty-five, and twenty-six respectively. Of 28 females whose ages were given 19 were under forty, and of these 12 were less than thirty years old, showing that the disease is not associated to any very great extent with the occurrence of the menopause. Of the 17 male cases 9 had reached the age of forty, one was fifty-four, and one sixty. The youngest was aged twenty-two. The general male average was thirty-nine and one sixth years, female thirty-three and one sixth; showing that probably sexual peculiarities have somewhat to do in hastening the disease.

Acne sebacea was seen in 8 males and 7 females, the former giving an average of thirty-five and the latter twenty-five years.

All the forms of acne are much aggravated by such occupation as requires stooping or attendance at hot fires. About the worst case of acne indurata I ever saw was in the person of a horse-shoer, constantly with his head near the floor or fire. Another dreadful case of acne rosacea with indurata is in a young woman employed in a shoe-store. A. T. Thomson also mentions this in regard to artisans whose work compels them to stoop and be near the fire, as shoemakers, blacksmiths, etc. But these agencies, I hold, can not produce acne except in conjunction with other causes, as we more commonly find eczema, erythematous lupus, and other congestive affections in such persons. I have reason to believe that the congestion of the head attending active mental exercise both aggravates acne and retards its cure. Continence is thought to favor the development and continuance of the disease, while married life promotes its cure. J. L. Milton denies there being any connection between spermatorrhœa and acne, having met with but fourteen cases of the latter in nearly two thousand of the former trouble.

We have thus seen that acne, as a rule, can be attributed far more to internal difficulties than to the effect of any external causes; for in the whole 164 cases but 7 were attributed to the action of outer irritants, and one to the iodide of potash, and none to tar.

Diagnosis. The diagnosis of acne does not, as a rule, present any very great difficulty. It may, however, be confounded with other affections, the most common being, I think, the papulo-pustular syphilide. I have had lately under treatment a young woman who for over two years had been treated for an eruption of the face, mistaken for ordinary acne, which was in fact syphilitic, and which yielded quite promptly to specific treatment, without any local means. The girl was in quite good station of life, and gave hardly any syphilitic history. In these cases the diagnosis must be established by the absence of seborrhœa and comedones (though these may

be present when syphilis occurs in those inclined to them); by the darker red and absence of pain in the syphilide, besides its location and distribution, the papules, pustules, and tubercles of the latter being generally found in groups, and there being commonly present or past marks of the disease elsewhere on the body; finally by the history of the eruption, the state of the patient's health, and the absence of other cause. But, after all, in some cases certainty can only be obtained by the practiced eye, and lastly, by the failure of one line of treatment and success of the other.

Acne sebacea cerea and *cornea*, or seborrhœa, may sometimes be confounded with lupus erythematosus (which was for a while called *seborrhœa congestiva* by Hebra), the superficial lupus of Cazenave, or *erythema centrifugum* of Bielt. This latter affection, although resembling seborrhœa in its superficial character, and although its scales have likewise villous prolongations into the sebaceous glands, still must be clearly differentiated from it, because of its different nature, course, and treatment. It is allied to true lupus in the cellular deposit which affects the sebaceous glands; its course is to result in a superficial destruction of tissue by interstitial absorption without even a solution of continuity, while the treatment for acne sebacea fails to remove genuine lupus. The points for diagnosis are: the patch of erythematous lupus is, as a rule, well defined, thickened, and of a deep, dull red when the scales are removed, differing in all these respects from seborrhœa. Lupus also burns, smarts, or itches; seborrhœa seldom gives trouble. Acne rosacea also may sometimes be mistaken for this lupoid disease. A distinguishing mark, however, of all forms of acne is that sooner or later they are accompanied with pustules, while lupus has none.

Prognosis. That acne is difficult of cure, and annoying in its treatment, we all know; but that with due persistence and knowledge on the part of physician and patient it can be cured in all its forms is a fact borne out by the practice

of many, and one which from my own experience I firmly believe to be true. Wilson states that "although chronic, acne is perfectly curable;" and with reference to the rosaceous form, which he considers a separate affection allied to the eczematous eruptions, he says "there is no disease more amenable to treatment than is gutta rosacea, when properly understood;" and yet Jeffries, in his prize essay on the "Recent Advances in the Pathology and Treatment of Diseases of the Skin," asserts that "acne disseminata is still the bane of the dermatologist;" and Hunt, speaking of acne rosacea, says: "So general is the impression that it is incurable that patients rarely seek medical advice for this disease, and still more rarely do regular practitioners undertake the cure in a methodical and persevering manner."

The cases here analyzed do not, it is true, give absolute statistics as favorable to the entire cure of acne as might be desired. Of the whole number 28 were seen but once or twice, 21 are still under observation, and in 6 the result is unknown, leaving 109 cases from which to judge of the ultimate effect of treatment. Of these but 19 *are recorded as cured*; but this, of course, was not the whole number, but only those who reported themselves or were heard of and noted as cured—always a small proportion of the cases of any class of disease in a consulting practice. Many also of the 36 noted as much or very much improved, and 38 who *improved* while under observation, may have completed their cure under their own guidance, while I can report very favorably from those now under treatment. There were but 5 in the whole number stated to have received no benefit, and only 11 slightly relieved; a total of 16 of the entire 109 treated. Of those cured acne sebacea presented the largest proportion, 5 out of 8 cases; rosacea next, 8 in 32. Acne simplex gave the smallest ratio—3 in 60—although 20 cases were recorded as greatly benefited, and 26 as improving under treatment. James Startin reports, of 76 cases seen in two

months at the London Hospital for Diseases of the Skin, 20 cured and 56 under treatment.

Acne at the best is very chronic, and we are never justified in promising speedy relief; but in the vast majority of instances we can have every reason to hope for very material improvement, if not an ultimate cure, provided the treatment is persisted in. But to secure confidence patients should be made well acquainted at the outset with the difficulties attending a cure, and of its dependence upon their own care in the matter of diet, exercise, etc., and perseverance in the use of remedies.

Hunt thinks hereditary cases incurable. When some particular vice, as indulgence in drink, is persisted in, we can not hope for a cure. In certain cases acne shows a strong tendency to recur till after marriage, when it spontaneously disappears.

Treatment. Upon our views of the nature and etiology of acne we base our plan of treatment. Those who regard the disease as purely local endeavor to remove it by local means, and for a time succeed in many cases, only to be disappointed by fresh outbreaks occurring again and again. Those, on the other hand, who look upon acne as but a manifestation of some faulty state of the system at large will at once seek to remedy this, using topical means as well; and these, in my opinion, will be far more likely to cure their cases. And indeed we find that those who trust most to internal treatment, combined with a judicious employment of local applications, as Wilson, Startin, Fox, Bazin, and others, speak most confidently of the cure of acne; while the school advocating more largely local treatment, represented by Hebra, Neumann, and Hardy, dwells much on the difficulty of its removal and its frequent recurrence. The fact is a striking one.

I feel that I can not too strongly insist on this, that the very large proportion of cutaneous affections, and acne most of all, are but diseases of the whole economy, and should

not be studied exclusively from a local point of view. Nor should dermatology, in my opinion, constitute a close specialty, for enlarged views of general pathology and medicine are absolutely necessary to treat intelligently and give permanent relief in diseases of the skin.

The various forms of acne require somewhat different treatment, although most of these are but modifications of one plan to suit the slightly different local states. The plan is a regulative and tonic treatment internally, inducing as far as possible a perfect working of the bowels, kidneys, skin, and other organs; supplementary to which the local treatment should be soothing in acute inflammatory states, and slightly stimulant and astringent in others. The first obstacle, the removal of which is absolutely necessary for the cure of acne, is constipation. This is an exceedingly common condition in this disease; thus of 147 cases, with more or less perfect notes, 68 were recorded as having constipation. It would perhaps be more proper to use the term *costiveness*, as Chambers has made the distinction between the two, costiveness being used to signify a deficient secretion, where "the quantity of fæces is too small, constipation where the expulsive power is in default;" the former being more often the case in acne, where the excrementitious substances circulating in the blood are an important factor in the disease. But we will adhere to the more common term, as the distinction was not made in the clinical histories here analyzed.

This constipation must be overcome; for, as Tilbury Fox expresses it, "this preparation is a *sine qua non*." And this is to be accomplished not by purgatives, in the vulgar use of the word—for these sometimes have a very injurious effect on acne, the eruption becoming worse as the bowels are more and more irritated by stimulating cathartics, an effect which I have seen also in eczema—but by a careful employment of all the means at our command, by medicine, and far more important, by diet, exercise, and regularity in attending to the

calls of nature. And this latter I hold to be of much greater moment than generally considered, and its neglect a most fruitful source of a large share of the trouble experienced in this direction. Of the diet I will speak later under the head of dyspepsia. Regular daily exercise in the open air, always short of fatigue, is well-nigh essential; and this I find to be one of the most difficult points to carry, but one which always gives the best results. But generally some medicine will be called for to assist in this process, and to place the patient on the track of health again; and I say *only place* the patient on the right track, for all laxative medicines should be discontinued as soon as possible, their continuance and abuse being one of the grounds why the internal treatment of acne has fallen into disrepute. The remedy I have had most success with is a pill containing one half a grain of extract of aloes and one grain of dried sulphate of iron, with a little confection of roses. A small quantity of opium or belladonna may be added if it gives pain. One of these pills is given after eating, sometimes two being required after the noon meal. In a few days the bowels are loosened; and if the pills be continued at this rate a diarrhea will generally ensue, succeeded, when they are withheld, by constipation, and any benefit derived from them will be lost. The frequency with which the pills are given, after the bowels become at all lax, must depend on the frequency of the evacuation. We usually omit first the noon pill, then the morning one, and soon the patient takes one but every other evening; finally, *one* taken once a week, or once in two weeks, will have considerable laxative effect. Should they be required again, the same process of accustoming the system to act without them should be followed. Taken in this way the pills will often correct menstrual difficulties, except, of course, when dependent upon mechanical causes, as displacements, version, etc.

I have been purposely thus particular in this matter, for I believe this method of using these pills is not generally

known, and the success I have seen from them warrants a very strong recommendation in cases where such an effect is desired. I would also say that in general more success is obtained by attention to minutiae than is commonly supposed, and that too in skin diseases more than in any other line of practice.

Another remedy which has been followed with success, rather in my father's practice than in my own, is Kissingen water, and I would mention Hanbury Smith's in particular. This is given, one half to one pint, before breakfast daily, or it answers well if taken in the middle of the forenoon. I do not consider that the benefit derived from this water is wholly owing to its purgative properties; for with many these are quite weak, and the improvement following its employment seems not at all proportioned to its action on the bowels, though its ultimate effect is to leave them regular.

Most cases require an immediate laxative, and one of the best I find to be the old pill of two and a half grains each of blue mass and compound extract of colocynth, with a quarter of a grain of powdered ipecac; two such to be taken alternate nights for a few times, followed by Kissingen in the morning, and surely nothing I know of makes more impression on some cases of acne for the time being.

But a second^d element, quite as important in the treatment of the disease before us, is *dyspepsia*, which enters very largely as an exciting cause in all dermal affections. This is in many cases dependent on, or conversely productive of, the last condition considered—constipation—and is often remedied by the treatment already given. Of our cases 27 were distinctly recorded as having dyspepsia, while many more had headaches, diarrhea, flatulence, gastric derangement, disturbances of the urinary secretion, etc., but signals of an imperfect primary or secondary digestion. Oxalate of lime is not an infrequent urinary deposit in cases of acne, and the urine is often quite turbid with urates. These dyspeptic features are

not always prominent, nor are they always mentioned by the patient; so that considerable care should be given in every case to search them out. I am glad to see these views fully confirmed by so able an authority as Tilbury Fox (*Lancet*, August, 1872). "Every attention," says he, "must be paid to dyspepsia as affecting the origin and course of skin diseases. It gives rise, of course indirectly, to debility, to torpid action of the liver"—skin and kidneys, I may add—"to the generation of acridities that float about in the blood, and circulate freely through the skin, to disorder it; and lastly, it increases cutaneous hyperæmia by reflex action. Dyspepsia must therefore be regarded as a powerful intensifier of all hyperæmic skin diseases."

The dyspepsia associated with acne is mostly of the acid kind, and this is to be met in two ways. First—and this is by far the most important—by a proper regulation of the diet. In this the patients will require a large amount of instruction and watching. The most essential restriction in this respect is in the use of starch and sugar in all their forms, and for this suggestion I am indebted to my friend, Dr. William H. Draper, of this city. The advantages gained by moderation in the use of these principles I have verified again and again in practice; so that now it is almost a routine direction to patients with acne that they limit themselves in the use of farinaceous and saccharine substances, and I find that they are frequently relieved of much annoyance thereby, and are very grateful for the advice. With these articles I also proscribe totally the use of wine in any shape, and all fermented liquors—ale, lager-beer, etc.—as these, I believe, assist largely in the acid state of the system so common in these subjects. I do not think it is the alcohol in these beverages which does the mischief; for although acne is often attributed to the abuse of liquor, and the rosaceous form is common in drunkards, we know that their digestive organs are generally at fault; also that those who drink the most gin are quite apt to drink

ale besides. It is, I am led to conclude, the fermentative principle—the starchy product in the one instance and the saccharine in the other—which is lost after distillation; and I have repeatedly known alcohol to be borne well when vinous and malt liquors have increased the difficulty. So that when stimulation is necessary I do not hesitate to give alcohol, either in bitter tinctures or brandy or whisky (when it is safe to prescribe them), in small quantities, *with the meals*; but on no account do I allow ales or wines to be used. One of the worst cases of acne indurata I ever saw was in a lady who had for some time been taking ale with cod-liver oil, by the direction of her former physician, with great increase of the eruption. Now cod-liver oil alone will benefit acne as a rule. I have never known it to aggravate the disease. A gentleman, aged about sixty years, somewhat given to the use of port wine, came under my care for acne rosacea of the forehead. Treatment proved unavailing until the wine was abandoned, when the eruption disappeared under the same measures as before; and he has had no return of his trouble for more than a year, he abstaining from wine, but with no other treatment.

Coffee in large quantity, and tea drank to excess, has some effect in heightening the disease; but a very moderate use, especially of the former, is beneficial. Chocolate and cocoa are exceedingly hurtful, and should be interdicted. Among other articles which I find noted as having produced exacerbations or even returns of acne are pastry, fried substances, salted meats, pickles, sweet potatoes, macaroni, and milk—this latter, however, only exceptionally. In one patient strawberries and pine-apples occasioned a severe outbreak of a very dormant acne rosacea. I have given these particulars in full as I desire this to be a clinical paper, recording facts.

But equally important with a proper management of the diet is a judicious regulation of the amount and time of outdoor exercise. We will find that the large majority of those applying for advice for acne lead indoor and sedentary lives.

Thus three quarters of our patients were females, who with us invariably walk too little, markedly so in comparison with the English; which in a measure accounts for the difference between Mr. Wilson's statistics and mine, he giving 167 and I 180 per thousand; which is again in strong contrast to McCall Anderson's private practice, with only 86 cases which I reckon as acne in 1,000 miscellaneous skin cases, which suggests at once as a reason the Scotch inclination to outdoor sports and walking. This sedentary tendency, involving as it does the breathing of impure air, must be corrected, and that by the physician. And let me say the general direction "plenty of exercise in the fresh air," is not sufficient to change the mode of life of a patient, but a constant watching is necessary, as I have repeatedly found.

Electricity, so far as it cures the dyspepsia, is beneficial in acne; but from what I learn has not been of service when applied directly to the eruptive surface, but in some cases the reverse. I pass over the treatment, obvious to all, when the disease is kept up by some irritant, as heat (solar or artificial), cosmetics, neglect of cleanliness, use of irritating soaps, etc., and come to speak directly of internal medication.

I do not think that this disease is benefited in its early stages by arsenic or cantharides, but know the reverse to be true in certain cases. I do, however, value arsenic very late in the disease, when the eruption is about gone, to secure a perfect result; for I believe it gives tone and vitality to the skin, which enables it to secrete and pour out its sebaceous matter in a proper manner.

Much improvement is obtained, for a season, from the acetate of potassa with a bitter infusion, taraxacum or rumex, three times a day, between meals, largely diluted. But this must be followed up by tonics, together with regulation of the diet, exercise, and bodily functions, to be permanently useful. The mineral acids are very serviceable, and iron, nuxvomica and bark, with small doses of arsenic and a proper

local treatment, are necessary to complete the cure. I say cure rightly, I believe, for the disease can be removed, and if proper precautions are observed need not return, in many cases at least. Cod-liver oil and iodide of iron are required in the scrofulous, and a mild mercurial course will at times remove the eruption after the failure of other means. This is, of course, necessary in true syphilitic acne.

I have used the glycerine treatment recommended by Gubler, of Paris, in one case with remarkable success. Three other patients are taking it, whom I have not seen since I prescribed it for them, quite lately. It is simply one, two, or more tea-spoonfuls of pure glycerine, colored and flavored, given internally three times a day after meals, no other treatment, internal or external, being employed, nor any restriction in diet. No satisfactory explanation of its action has yet been given.

As to local measures, many patients were treated almost exclusively with the means above described, topical applications being entirely secondary. Unquestionably, however, we can do much in hastening the cure by some of the washes and ointments with which the books abound. My favorite local application is a wash consisting of a drachm each of sulphuret of potassium and sulphate of zinc in four ounces of rose-water. It is useful in almost all states and forms of acne, although it sometimes disagrees. The lead and opium wash acts very pleasantly when there is much inflammation present, and the iodide of lead in stramonium ointment serves well to reduce the thickening of the tubercles of acne indurata. I have seen improvement follow the application of citrine ointment thrice diluted with cold cream. I have applied collodion to endeavor to contract the dilated veins of acne rosacea, but without lasting effect. I have also laid open the veins in the same form with good results in some cases. I do not find the benefit I had hoped from bichloride of mercury wash. Juniper-tar soap is very useful in acne sebacea, punctata, and indolent forms of acne simplex.

It is best to press out the plugs of sebum from the comedones as much as possible, thus avoiding foci of inflammation; also to open such nodules as contain an appreciable amount of pus early, otherwise the tissue is destroyed subcutaneously and scars left.

In closing I would again state my firm belief in the internal causes of acne and many skin diseases, and raise my voice against a local pathology and close specialism which would isolate cutaneous maladies from the great mass of constitutional diseases; and while mystifying the subject with hard names, intricate classifications, and multitudinous subdivisions, blind its own eyes to the only true way of obtaining permanent success and benefiting our fellow-sufferers.

Dermatology is an inviting field, fascinating as a study and flattering in its successes; and of all the maladies falling under this head I know of none more benefited by proper treatment, perseveringly used, and for the relief of which patients are more thankful, than that manifestation of disease which we have been this evening considering—namely, acne.

NOTE.—I shall hope in the next number to give a synopsis of the discussion of the subject of acne at the following meeting of the New York Academy of Medicine, held November 7, 1872.

SOME REMARKS ON PAIN IN THE HEAD AND ITS TREATMENT.*

BY W. J. CONKLIN, M. D.

The old saying that a man should never know he has a stomach is equally true when applied to the brain. Pain is an evidence of abnormal action. It is the language of inarticulate tissue; as some one well expresses it, the prayer of the nerve for rest.

* Read before the Montgomery County Medical Society.

It may suggest itself as unscientific to discuss the significance and treatment of a mere symptom of disease; but, desirable as it may be to refer all symptoms to the pathological conditions causing them, it is impossible to do so with our present means of diagnosis. In cerebral disturbances the lightest symptoms possess peculiar value, because the cerebral organs inclosed in their bony case are removed from our direct exploration. Here auscultation and percussion, so valuable in ascertaining the condition of other inclosed organs, prove of little avail. We shall arrange our remarks under two heads:

1. The True Neuralgias;
2. The Organic Diseases of the Cranial Organs.

In the development of the human economy there are two eras of peculiar nervous instability—one at puberty, the other at the climacteric period. At each of these periods hereditary taints are very liable to manifest themselves. Pain is rarely the inheritance of childhood. At this period of life the instability of the nervous system is more frequently shown in disorders of the motor than in affections of the sensory system. Dr. West, in the Lumleian Lectures for last year, says: "In infancy and childhood pain referred to any part signifies, almost without exception, that disease of some sort or other is going on then or near at hand. . . . I have never in infancy known any instance of pain, severe, obstinate, recurrent, for which, sooner or later, a distinct local cause was not found." The almost complete exemption of early life from neuralgic affections is well known. Authors, however, describe one form which generally manifests itself in children who have recently begun going to school. It seldom lasts beyond puberty, and closely resembles the migraine of later years. The diagnosis rests upon the frequency of return, completeness of the intermission, and the similarity of successive attacks. Dr. Anstie, in his recent work on neuralgia, makes the statement that the existence of any severe neuralgic

affection in a young child, if it can not be traced to tubercle or other recognizable organic disease, is *prima facie* ground for suspicion of precocious sexual irritation. The pain of organic disease differs from neuralgic pain in the fact that it is rarely limited to any particular part of the head (but if so, it is limited to the forehead). Again, the intermissions in the former are not so well marked; and some one symptom, as nausea, constipation, etc., is found to be nearly or quite constant during the intermission.

Inflammation of the coverings of the brain, so common in childhood, is, as a rule, attended with more pain than any other affection to which children are liable. Not only is this true in the earlier stages, but later in the disease, when consciousness is apparently lost, the contracted brow, the boring of the occiput in the pillows, and the constant moaning bear witness to the pain of the little sufferer. Trousseau points out the importance of tears as disproving the existence of any real inflammatory disease in the head or chest. Since my attention was called to this fact I have several times had occasion to prove its value in diagnosis.

The climacteric period, especially in women, which marks the end of her distinctive life, is fruitful of neuralgias as well as all vaso-motor disturbances. There is a peculiar grouping of symptoms usually found in females at this period of which I wish to make mention; viz., a burning and sense of weight or pressure limited to the top of the head, and accompanied with more or less melancholia, to which may be added weight at the pit of the stomach, flatulency, and other gastric troubles. The gastric disturbances are, however, secondary, and the characteristic pain and gloom may exist alone. These annoying symptoms are generally promptly relieved by small doses of *nux vomica*. It is, however, in the afternoon of life, when the vital powers begin to wane, that the most severe neuralgias have their beginning. The only point to which we wish to call attention in this connection is the frequency with which

neuralgia is the first announcement of that decay preceding the arcus senilis, degenerated arteries, and other changes incident to age. Before leaving this division of the subject we would call attention to the difference between migraine, a true neuralgia of the trigeminal pair of nerves, and the ordinary dyspeptic sick-headache.

In dyspeptic headache there is the antecedent history of dyspepsia, and in any particular attack the gastric symptoms begin with or precede the head pain. The pain is rather of a dull, heavy character. It may be frontal, but is usually occipital, and nearly always bilateral. Sleep does not wholly relieve the headache. In migraine there is a different sequence in the symptoms. The pain comes on without any cause referable to the digestive organs. The pain is more intense, and darts through the head as if the brain were pierced by a knife; is always unilateral, and marked by painful foci over the eye and in the temporal region. The attack goes on increasing in severity for hours, when vomiting occurs, followed by sleep and relief.

The difference of treatment required in the two affections renders the diagnosis important. The patient, tracing all of her troubles to her stomach, is very careful as to what she eats, gives a wide berth to what she calls strong food, perhaps lives on a starving diet, and thus increases her suffering; when in truth, according to recent authority, a liberal dietary—from four to six meals a day, largely made up of oleaginous articles—offers the best hopes of relief in migraine.

Since pain is the most frequent and generally the earliest indication of organic brain disease, it is important to consider the diagnostic points between the pain thus caused and that of neuralgia. The following may be stated as the points favorable to the neuralgic origin of any pain:

1. Absence of neuralgia in early life; its frequency after puberty.
2. Absence of a definite cause, as tubercle, syphilis, etc.

3. Complete intermission of pain.
4. Lancinating character of pain.
5. Effect upon general health less than the severity and duration would lead you to expect.
6. Presence of "*points douloureux*."
7. Pain unilateral; or if bilateral, it is symmetrical.
8. Pain superficial, following the track of some nerve.
9. Presence of lachrymation and other vaso-motor and secretory complications.

In intercranial affections the location of the pain affords very uncertain indication of the seat of the disease. However, owing to the great resistance of the tentorium to pressure, pain in the back of the head locates very accurately the causative lesion in the posterior cranial fossa. According to Niemeyer, pain in the back of the head, sympathetic vomiting, diminution of sensibility and motor powers without paralysis, difficulty of deglutition, with a peculiar dizziness, form a grouping of symptoms almost pathognomonic of cerebral disease. The dizziness found in this form of disease is not merely subjective—a mere hallucination—but only occurs upon actual movements of the body which the patient does not perfectly perceive. In acute inflammation of the meninges, cephalalgia of the most intense character, increased by every jar or movement, is the earliest and most striking symptom. The severity of the pain bears no relation to the extent of surface affected, the most acute pain often being present in limited disease. The headache of meningitis differs from that of the continued fevers in being more intense and persistent. The patient does not wait to be asked about pain, but complains bitterly and craves relief. Greisinger holds that constant contraction of the pupils is indicative of irritation of the surface.

The pain in cerebral hyperæmia and anæmia is similar in kind, though less in degree, to that found in meningitis; and this fact finds a ready explanation from the manner in which

the brain derives its blood supply. In cerebral softening the pain is dull and circumscribed, and is accompanied by a feeling of fullness and constriction about the head. Tumors of the brain are almost always attended with severe pain, generally confined to a definite region. While abscess, softening, and other organic troubles may run their course without pain, the absence of pain in a doubtful case is strong presumptive evidence against the presence of a tumor. However, slow-growing tumors may, by causing atrophy of the cerebral mass in proportion to their growth, run a painless course.

I do not propose to discuss at any length the therapeutics of pain. Such a discussion would involve the treatment of the whole class of diseases of which pain is a symptom, and would be manifestly improper before this Society. I wish, however, to offer a few suggestions. First, as to the curative power of narcotic remedies in certain head-pains which are not due to organic disease, and are not properly classed under the head of neuralgias. They seem to be only bad habits of nerves; the pathological habit having replaced the normal physiological one. The proneness of the nervous system to work in wrong channels is well known. Beyond doubt many epilepsies, many cases of insanity, as well as many aches, are nothing but bad habits. The continued administration of narcotics enforces quiet, and affords the tissues an opportunity of regaining their normal condition.

The headache of continued fevers, and that occurring in old age, as well as the active delirium found in these conditions, are oftentimes very speedily relieved by a glass of ale or wine; opium in stimulating doses also acts pleasantly; while the bromides and chloral are less efficient, and sometimes actually hurtful.

The value of combining several cathartic drugs is generally conceded, and is utilized in the compound cathartic pill of the pharmacopœia. The value of combining narcotics is equally great. The advantages are greater certainty and promptness of

action, longer duration of effect, and the relief of the unpleasant action of each ingredient. I wish to speak particularly of the good effect of combining opium and belladonna. I rarely ever administer liquid preparations of opium without adding two or three drops of fluid extract of belladonna to each dose.

I would also allude to the inutility of small doses of bromide of potassium for the relief of pain. Even if the object is to produce continued bromism, the object is better attained by large doses followed by smaller ones. For the relief of pain or induction of sleep less than one half drachm should never be given, and drachm doses are still better.

DAYTON, OHIO.

CASE OF ANENCEPHALOUS MONSTER.

BY S. V. FIROR, M. D.

I shall not pretend to enter into the literature of monstrosities, nor indeed collate the cases of that class to which the following belongs, but content myself with an accurate description of one of those singular freaks of nature by which a conception, doubtless perfect *ab initio*, was changed in the progress of gestation into a monster by defective development.

April 17, 1872, I was called, about one o'clock A. M., to see Mrs. C. in her second confinement. She had been in labor some three hours when I arrived. The pains being strong, and recurring at short intervals, I touched and found the os tinæ dilated to the size of a half dollar. I could also clearly discover a face presentation, with the chin under the arch of the pubis; and by passing the finger around the face I could distinctly feel a shoulder. I made an effort to correct the presentation; but owing to the frequency of the pains, and

the expulsive force of contractions, I soon found this impracticable. I then tried to ascertain, by passing my finger around the pelvic cavity, over the eyes and above the ears, whether the size of the head would impede the delivery, when to my great astonishment I was not able to feel any solid prominence above the margin indicated; still I did not fully realize until after delivery, which took place twenty minutes before two o'clock, the extent and nature of the deformity.

Except the absence of the crown of the head, the child was large and well formed, weighing a little over nine pounds.

With the assistance of the accompanying cut, which represents the child very correctly, I will describe this singular case of deformity as it presented itself to my view. There is an entire absence of the calvarium (Fig. 1) from a line commencing with the globe of the eye, on either side, and passing back a quarter of an inch above the top of the ears. There were no bony arches over the eyes, which were kept closed, and had the appearance



FIG. 1.

of large oval tumors—there being, I suppose, considerable adipose tissue under the upper lids. This gave the appearance of a considerable depression over the root of the nose. The edge or margin of this plane was not abrupt, but a sort of fleshy roll elevated a little above the ears, and extending around the occiput, about the superior ridge of the occipital bone. By pretty firm pressure upon the border I could feel the solid bony base of the partially-developed temporal and occipital bones. Inside of the latter was probably contained a small cerebellum. Upon the center of this flat crown, as will be seen in the accompanying cut (Fig. 2), was a soft

mass, convoluted, and of a cherry redness. This substance was elevated about one fourth of an inch above the plane, and was about an inch and three fourths in diameter, not quite circular. The covering of the mass was a serous membrane. Between this and the rim or edge there is a marked depression, which seems to have a more solid base. Immediately around the circumference of this substance were a few hairs, all that were to be seen about the child.

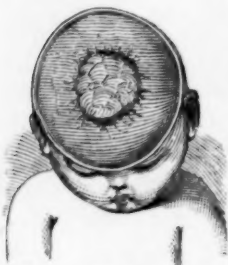


FIG. 2.

By touching this brain-like substance near the center the muscles of the extremities were convulsed as if an electric current were passed through the body; evidently showing that this substance was in direct connection with the nervous center, and no doubt was all the brain the child had, except the medulla oblongata, upon which this substance rested.

The child was a female, quite vigorous, and exhibited strong muscular powers; would smack its lips together, and close its jaws quite firmly, when the finger was introduced into its mouth. It could raise its head, or rather face, forward without any assistance. It took nourishment out of a spoon quite greedily for twenty hours after its birth, after which it made no attempt at swallowing. It urinated a number of times, and had several motions from the bowels. The circulation about the face and neck seemed rather imperfect, presenting the appearance of venous congestion of the capillaries; but for twenty hours after birth no such indications were visible on any other part of the body. It lived thirty-nine hours, when it expired with a feeble cry and one or two convulsive jerks of the extremities.

CATLETTSBURG, KY.

Reviews.

Injuries of Nerves and their Consequences. By S. WEIR MITCHELL, M. D., Member of the National Academy of Sciences, etc. Philadelphia: J. B. Lippincott & Co. 1872.

When the Surgeon-general of the United States Army established, in May, 1863, a Hospital for Nerve Injuries, Dr. Mitchell was made a member of its staff. Here our author gathered the materials out of which he has constructed one of the most interesting and original books of the day. Dr. M. took with him to his work an uncommonly well-disciplined mind and very high scholarly attainments. His style is exceptionally clear.

The scope of this journal does not allow of our noticing any of the subjects, such as the anatomy of nerves, neurophysiology, etc., which are discussed in the earlier chapters of the book, nor do our limits admit of our making other than very brief extracts even from the chapters on treatment.

Of sutures in nerve-wounds Dr. M. thus speaks:

"Where it is plain, from a careful study of the wound and the loss of function, that the nerve trunk has been altogether divided, the surgeon is called upon to decide whether he will leave repair to nature alone, or enlarge the wound and secure coaptation of the nerve-ends by the use of sutures. The propriety of this step rests upon the manner in which we answer these two questions: Will any, even the most perfect, approximation of nerve-ends insure immediate union? and, failing this, will it make likely a more speedy return of healthy function? To the first we may give a certain negative; to the second we may, with some confidence, reply in the affirmative.

"As I have already pointed out, all the physiological evidence is against the possibility of immediate useful union. Within a few days the peripheral end of the nerve surely degenerates, and in adult animals many months may pass before it is restored and the two ends reunited. Even in young animals the earliest reëstablishment of function, when the ends were made to touch by suture, was seven or ten days (Schiff), and nine days (Magnien). Vulpian has no case within seventeen days; and I have never met with an instance even in so short a time as this. The physiological facts are therefore opposed to the probability of immediate union; but, on the other hand, we are met by the statement that these were derived from lower animal life alone, and that in man the rule as to the time demanded for restoration may meet with exceptions."

Our author now quotes the two cases of nerve section reported by Paget in 1863, in both of which, after the lapse of ten or twelve days, there was slight feeling in the distribution of the severed nerves. He also gives a case occurring in the practice of Nelaton, and one in that of Laugier, where sensibility was seemingly restored at a much earlier day; but he contends, and we think justly, that the reports of these cases are "too open to criticism to allow of our admitting that severed nerves may unite by immediate union; but even should we accept the facts as stated, they may still be explained with the aid of the recent researches of Arloing and Léon Tripier, which have shown that in the dog and some other animals the connections in the extremities between the various sentient nerves is such that the division of one trunk by no means annihilates sensation in the parts to which it is distributed. As yet the evidence for a like arrangement in man is incomplete; but we are not without a few cases which, together with those above quoted, seem to make it probable that in man some such exceptional distribution of nerves may occasionally be found to exist. Paulet relates several instances which favor this view. M. Richel reports a case of entire division of the median, in which the sensibility of the thumb, index, medium, and ring fingers was preserved entire."

But Dr. M. adds: "The general evidence as to the immediate and continued loss of function when nerves are cut is so strong that even if we admit the cases of exception as correctly reported, and bring to our aid the explanation given by Arloing and Tripier, we shall have to conclude that in man such partition of function as they describe in animals must be singularly rare. Thus in one hundred and fourteen cases of nerve-section which I have collected there was but one instance of no loss of sensation or motion. These rare exceptions must then be referred to unusual nerve arrangements in or below the plexus."

Our author thinks the evidence that nerve-suture is not injurious is ample, and that after its employment the time needed for healing is notably lessened; and concludes therefore that the surgeon is justified in employing "sutures in any nerve-wound, and especially where there has been loss of substance, as after removal of a neuroma."

Dr. M. now describes the several modes of using the suture, his own among the rest, but gives the preference to that of Vulpian, who "uses in animals a single linen thread, which he carries with a fine needle from the upper side of the nerve obliquely through it, so as to come out about the middle of the cut surface. It is then passed through the middle of the exposed face of the opposite section and out at its upper side; so that when the loop is made and drawn it brings the ends in exact apposition, if the needle has been made to penetrate precisely corresponding points of the two faces." But by whatever method a nerve wound of any kind has been placed "in the most favorable condition for healing, we shall find that, no matter how well exceptional cases may do, we shall usually have to treat defects of motility and mobility, altered states of sensibility, and sometimes nutritive changes."

The muscular paralysis and atrophy which follows upon section or grave injuries of nerves is best treated by elec-

tricity in some form, manipulation, and alternate hot and cold douches. For our own part, we have very great faith in shampooing and otherwise manipulating palsied limbs. We think this mode of treatment too little used by the profession. Neither the secret of the "bone-setter" nor that of the "movement-curer" are as widely known as they should be. A really scientific shampooer will sometimes supple joints and restore motion to limbs which would otherwise remain indefinitely useless. The application of electricity three or four times a week with daily massage, preceded by local hot baths, fulfill, according to our author, all the needed indications for the relief of atrophy and muscular paresis. While Dr. M. sees a good physiological reason for the administration of strychnia in cases of long-standing paralysis, he has not met with the brilliant success claimed by some writers for hypodermic strychnia immediately to the palsied part.

Our author's remarks on the treatment of traumatic neuralgia are, by reason of his great experience, of the highest value. Counter-irritation over the cicatrix or the nerve track Dr. M. seldom found serviceable, while it was sometimes distinctly hurtful. The local use of chloroform was in his hands of but temporary benefit. Veratria he does not use; and while he saw aconite do good in a case of neuralgia from wound of a small sensory nerve of the skin, the irregular way in which this drug sometimes acts locally, and its great power to retard the heart, did not cause him to repeat its application. Acupuncture was repeatedly used without the slightest advantage. His sheet-anchor was hypodermic morphia.

"In neuralgia, from what we call, for want of a better term, irritation of nerves, there is reason to believe that some of the opiates in the form of hypodermic injection may prove more or less curative in their action; but where, as in most traumatic neuralgias, there is manifest organic alteration of the nerve, such agents are chiefly of service because they relieve pain, and thus enable us to bridge over, so to speak, the many months of torture which are

needed to bring the nerve back to health again, or to afford time for electrical or other treatment. Without some such heroic means of dulling pain few men would be content to wait in patient agony the long months which must often pass away before relief may come, if it come at all. This method therefore has, within my own knowledge, been the saving of a number of nerves and of many limbs which otherwise must have been sacrificed for the purpose of relieving unendurable pain.

"At the present time this mode of using narcotics has grown into common use, but even yet it is scarcely estimated at its full value. In the wards for nerve-wounds in the U. S. A. Hospital it was almost the only plan of treating severe neuralgic pain; so that twice or thrice a day the resident surgeons passed around these wards with their narcotics and hypodermic syringes, seeing, as a physician observed to me, anguish and troubled faces before them, and leaving behind them comfort and even smiles. The picture is not overdrawn, since perhaps few hospitals have ever embraced at one time so many cases of horrible torture. It was usual at one period, I believe, for the assistants to give every morning and every night between sixty and eighty hypodermic injections.

"During one year at least forty thousand doses of various narcotics were thus administered without an accident, and in certain single cases upward of five hundred hypodermic injections were used; so that if there were no other evidence of the innocence of this mode of medication, our own experience would have been amply competent to settle the question.

"I have had large opportunity for studying in traumatic neuralgia the comparative merits of narcotics used by the mouth or under the skin, and I have no hesitation in stating as my opinion that the latter method is not only the more effective, but also the less harmful constitutionally.

"For the easing of neuro-traumatic pain we tried, in turn, the whole range of medicines known as narcotics, such as conia, hyoscyamus, daturia, atropia, and morphia. None of them, save the last, seemed, when singly used, to be of the slightest value, and one by one they were laid aside until, in the vast mass of cases, the salts of morphia alone were employed. A careful series of examinations showed very distinctly the trifling influence of atropia upon this form of pain. Several cases of intense neuralgia from wounds were treated with injections of sulphate of morphia under the skin in rising doses. When we learned the amount needed to give

entire ease we used in its place, next day, a full dose of atropia, our largest injection having been one fifteenth of a grain. The most absolute failure attended these efforts, so that, without denying to this latter drug the power ascribed to it of relieving certain neuralgias, I am sure that it is in the traumatic species simply useless.

"The morphia salts, on the other hand, are invaluable. For hypodermic use I usually employ at first one fourth of a grain of the sulphate, but I have given as much as a grain and a half twice a day. When continuously used it is very curious that its hypnotic manifestations lessen, while its power to abolish pain continues; so that the patient who receives a half grain or more of morphia may become presently free from pain, and yet walk about with little or no desire to sleep. The ability to lessen pain is not therefore of necessity connected with the sleep-compelling potency. Where, however, the latter is inconveniently felt, and we desire the former only, it is possible to attain the end in view by using with the morphia a certain share of atropia. Thus, if we inject half a grain of sulphate of morphia, and with it the thirtieth of a grain of sulphate of atropia, the anæsthetic force of the morphia will rest unaltered, but the tendency to sleep will be greatly diminished. The views here set forth were reached after long and careful experiments on large numbers of men, and seem to justify the practice of using atropia and morphia together."

Where there is tenderness with sclerotic conditions the nerve may be benefited by methodical massage.

Causalgia, or burning pain, was best treated by water-dressings "unceasingly renewed, the sufferers carrying a bottle of water and a sponge, and keeping the part covered;" and in this form of pain, and in this only, Dr. M. is confident that hypodermic morphia *injected into the tissues of the affected part* gave better results than when used at points remote from the seat of pain.

In reference to constitutional treatment of traumatic neuralgia our author has but few words, and they of mournful significance. Iodide of potassium, corrosive sublimate, and the other great drug powers were utterly helpless for good in presence of the agonizing pains of this form of neuralgia.

Dr. Mitchell found in Lippincott & Co. fit publishers for his most original and in all respects excellent work.

General and Differential Diagnosis of Ovarian Tumors, with special Reference to Ovariectomy; and occasional Pathological and Therapeutical Considerations. By WASHINGTON L. ATLEE, M.D. Philadelphia: J. B. Lippincott & Co. 1872.

Ovarian Tumors: Their Pathology, Diagnosis, and Treatment, especially by Ovariectomy. By E. RANDOLPH PEASLEE, M.D., LL.D., etc. New York: D. Appleton & Co. 1872.

The first of these volumes is dedicated to the *memory* of Dr. Ephraim McDowell and to Dr. John L. Atlee; the other to the *memory* of Dr. McDowell also and to Spencer Wells.

General diagnosis of ovarian tumors occupies the first part of Dr. Atlee's book, then follows differential diagnosis. One hundred and thirty-seven cases are introduced in illustration of various points in differential and general diagnosis. Dr. J. Ewing Mears contributes a chapter on the *Pathology of Cystic Tumors* of the Ovary; Dr. Drysdale one upon the *physical, chemical, and microscopical* characters of dropsical fluids, especially those derived from ovarian cysts. Dr. Atlee promises a second volume, devoted to the *Treatment of Ovarian Tumors*.

Dr. Atlee has laid the profession under obligations by this work. It will be an invaluable aid in the hands of many a physician in the diagnosis of ovarian tumors. The book is well written, clear, and eminently practical. The author, whose fame as one of the great ovariectomists of the age is so generally recognized, has added fresh laurels to our American medical literature in this volume, the great merit of which will be generally acknowledged at home and abroad.

Dr. Peaslee's work is larger, fuller, of wider scope, and of a more scientific character. Its accomplished author has

laid under tribute the professional literature of this country, of Europe, and even of Asia in his indefatigable search for ovariectomies. The eight or nine pages of *bibliography* that Dr. Peaslee gives is almost enough to set the "wonder" growing that one book—by no means small, however—should contain "all he knew."

"The first part of the work includes the normal anatomy of the ovary, and the pathological anatomy, the pathology, diagnosis, and treatment of ovarian tumors, excepting by ovariectomy. The second part is devoted to ovariectomy alone, including its history, statistics, practical details, and after-treatment. It aims to decide all practical questions by the aggregate experience of all ovariectomists up to the present time." The book contains an excellent engraving of Dr. McDowell, and has scattered through it many illustrations.

It is impossible in our limited space to present even a complete analysis of this valuable and opportune volume. We hope there are few physicians who will not provide themselves with either "Peaslee" or "Atlee," or better still, with both.

T. P.

Puerperal Convulsions. A general view of two hundred and ninety-seven cases. Read before the Tennessee State Medical Society, April 2, 1872. By JOHN W. RICHARDSON, M. D., of Rutherford County, Tenn.

Dr. Richardson has prepared this paper with evident care and not a little labor. The statistics he has collected furnish an important basis for study, and he has also freely consulted many of the leading authorities* upon this disorder. He has furnished a paper instructive in itself and useful for reference.

T. P.

* We dislike to see such errors as Columbat and Sympson among these.

Clinic of the Month.

A PATELLA BRACE.—Dr. J. M. Clemens, of Louisville, read, at the meeting of the Kentucky State Medical Society in April last, a short paper of much practical interest on *fractures of the patella*, accompanied by an apparatus for their treatment which, it seems to us, possesses advantages over any now in use. The apparatus was devised for, and is especially applicable to, transverse fractures of the bone, for the management of which so many appliances have been suggested; "among the best of which,"* Dr. C. says, "may be mentioned the *ring* of Dr. Gibson, of St. Louis, highly recommended by Prof. Eve. The apparatus of the late Mr. Lonsdale, of England, consisting of two plates of metal shaped like a horseshoe, so as to grasp the upper and lower fragments of the bone; slightly curved underneath, in order to fit the convexity of the limb on which they press. These two plates are fixed on two iron rods, which are made to slide backward and forward on two iron bars, which in turn are made to slide up and down on two strong rods fixed to a back splint. Hamilton's modifications of the circular leatherbelts, which are fastened above and below the patella, approximated by longitudinal straps, and held in position by bandages or strips of adhesive plaster secured to a broad back splint; and several others less valuable, being the result of attempts to accomplish the same end—*i. e.*, preserving coaptation of the fragments without circular constriction—this being the *sine qua non* in the successful management of this accident.

*Vide Transactions of the Kentucky State Medical Society 1872.

"The lack of success of the multifarious and diversified appliances in attaining this end can not be more forcibly shown than by the report of the late Mr. William Adams to the Pathological Society of London. He concludes, after a laborious search into the history of all the reported cases attainable, that 'union by bone of a transverse fracture of the patella is exceedingly rare. More frequently,' he reports; 'the fragments are united by ligamentous tissue from a half to one and a half inches in length.' Most frequently, however, the fragments remain united, and are connected with each other merely by a portion of the fibrous capsule of the knee-joint thickened, and having incorporated with it the bursa naturally existing on the front of the patella. Mr. Adams succeeded in finding thirty-one specimens, in fifteen of which no union had taken place; twelve were united by ligaments of various lengths; the character of the union of the remaining four being doubtful on account of the specimens being dried.

"It seems to me that the indications necessary to secure bony union are, as nearly as possible, attainable by the aid of the apparatus which I have devised and chosen to name



the *Patella Brace*, consisting of a couple of bands of steel, three fourths of an inch in width by eight inches in length, of the thickness of an ordinary hand-saw blade, bent into three curves, the middle of which is the sharper and designed to stand off from the popliteal vessels, while the other two

are designed, as nearly as possible, to fit the sides of the knee at a point corresponding to the upper and lower margins of the patella *in situ*, reaching up to the junction of the anterior with the latero-posterior two thirds of the circumference of the limb. These bands are joined across their middle—which is also the middle of the popliteal curve—by means of a metal bar half an inch in width by three and a half inches in length, with three holes one half inch apart, running longitudinally and near its extremities, to which, by means of a screw through the middle of each band, they are secured; these additional holes in the connecting bar allowing the separation and approximation of the bands to several inches; the whole being attached by means of screws through the connecting bar to a back-splint eighteen inches in length, four inches wide at the upper and three inches wide at the lower extremity, hollowed out to fit the convexity of the limb. These bands, which are designed to encompass the posterior two thirds of the knee, are finished out with strong leather straps and buckles, arranged to buckle immediately above and below the patella. These, in turn, are armed with cross-straps and buckles running parallel with and just at the outer and inner margins of the bone when the instrument is applied, by means of which the strong broad straps may be so approximated as to hold the patella as if in a vise. The bands being constructed of flexible steel, the instrument is alike applicable to almost any sized knee. The brace may be detached from its accompanying splint, and applied in connection with any other splint that a complication might render necessary, or may be worn without the splint, after the patient is allowed to leave the bed, as a support until the bond of union between the fragments is sufficiently firm to warrant the discontinuance of supporting measures."

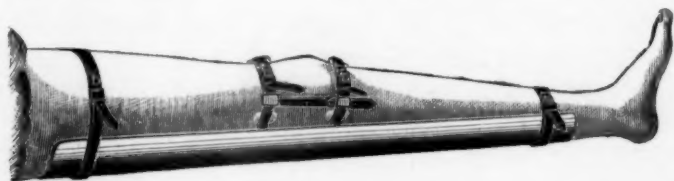
Dr. Clemens relates only one case* in which he used the

* Dr. Edward Richardson, now of this city, reported this case in the Medical News, November, 1860.

apparatus, but this illustrates in so striking a manner the value of the brace that we give it entire.

"July 27, 1860, in connection with Dr. E. R., I was called to see C. W., aged sixty years, a farmer, who had while on horseback sustained a compound comminuted fracture of the right patella from the kick of a rough-shod, vicious horse; the wound of the integuments extending a little obliquely upward the entire length of the lateral diameter of the knee, commencing near the outer margin and opposite the junction of the lower and middle thirds of the patella—the line of fracture mainly corresponding to that of the tegumentary wound—so that a little more than a third composed the lower fragment, while the upper fragment was divided into two adherent portions, the outer being the smaller, triangular in shape, presenting sides of about one inch in extent. A number of fragments of smaller size were completely detached, some having dropped down into the gaping cavity of the joint; all of which were removed by means of the finger passed freely through all parts of the joint. After which, by means of a syringe and warm soft water, *the joint was actually thoroughly washed out*, to remove coagula of blood and any small particles of bone that may have escaped the finger. The treatment consisted in slightly flexing the limb upon the trunk, bringing down the upper fragment, which had been drawn several inches out of position, by the contraction of the powerful rectus and vasti muscles; closing the extensive wound—which was more the character of an incised than a contused wound—by sutures and adhesive strips; the application of the roller, commencing at the toes, making figure-of-eight turns over the joint, having previously placed a compress above and below the patella to aid in preserving juxtaposition of its fragments; confining the limb to a long splint or board; the application of cold-water dressing; and the usual antiphlogistic regimen enjoined. I was requested by Dr. R. to see the patient on the following day, which I did. Notwithstand-

ing the bandage had been well and thoroughly applied by Dr. R., the patient, seeking to relieve some pain and uneasiness in the limb, had loosened the bandage at several points below the knee, exposing the naked limb, which points, being without support, of course became constricted and very painful. Having no adequate assistance in removing and reapplying the bandage, I contented myself with making a few turns of a roller over the points where the bandage had been loosened, to support the exposed portions of the limb, gave him an anodyne, and left him to rest until the following day, July 20th, when Dr. R. and myself saw him together. We found him more comfortable, though still suffering considerable pain at the site of the injury, as well as at the points where the bandage had been disturbed. With Dr. R.'s consent I applied the patella brace, which I had devised and constructed, by the



aid of a smith, during the interval of my visits, using pads made by pretty firmly stuffing carded wool into little bags of the proper size and shape. Of these I placed one immediately above and below the patella, about two and one half inches square by one inch in thickness, wedge-shaped, the base looking to the patella; another of the same material and thickness, one and a half inches in length by one inch in width, under each extremity of the steel bands, where they embraced the sides of the knee; thus securing the only points of pressure—six in number—through the medium of these soft elastic pads, enabling me to draw the strong, broad straps very firmly, after which they were approximated by means of the side straps; securing and preserving the most perfect

apposition of the fragments of broken patella, without inflicting the least pain or interfering in the slightest degree with the most perfect circulation in the limb, save barely the points occupied by the soft pads. It is a remarkable fact that after an hour or so all actual pain ceased in the limb, leaving only the small amount of soreness which is felt in ordinary flesh wounds; and that there never was the slightest perceptible febrile disturbance during the process of reparation.

"The case progressed thus favorably, the wound in the integuments healing—mostly by first intention—entirely up in five or six days. Cold wet cloths having been kept constantly applied, in addition to which, for the most part of the first few days, water was kept constantly dripping upon the dressing from a vessel conveniently arranged. About the ninth or tenth day there appeared some circumscribed swelling, increased redness and pain at the outer angle of the wound—now cicatrix—which proved to be occasioned by the accumulation of a small quantity of laudable pus, possibly the result of some small foreign substance having been lodged and overlooked at that point. By a small opening the pus was allowed to escape, with speedy relief to the symptoms. There appearing no disposition to reaccumulation, the process of reparation thenceforward progressed favorably to the end; the result being a speedy recovery, perfect bony union, the vertical diameter of the two patellæ corresponding by measurement, and never changing during the life-time of the patient; a flexible joint, the leg being easily flexed to a right-angle upon the thigh; extension perfect, so that in ordinary walking there was during the life-time of the old gentleman, who lived several years after, not the slightest impediment.

"The advantages which I claim for the patella brace in the treatment of these fractures over all other modes and appliances are that it secures and preserves perfect apposition of the fragments, thereby insuring bony union, which it is

scarcely possible to accomplish with the bandage so generally used, and with extreme rarity by the best of other methods. In compound fractures it leaves the wound open for inspection, dressing, and free escape of fluids, the confining of which constitutes a serious and irremediable objection to the bandage; that it leaves the circulation, not only in the immediate vicinity of the wound, but throughout the entire limb, unrestrained, thereby leaving the recuperative powers of nature untrammelled; finally, that it shortens the duration of the treatment, and is necessarily more cleanly in compound fractures than any appliance yet devised, save possibly the ring of Dr. Gibson and the apparatus of Mr. Lonsdale."

THE CURRENT MATERIA MEDICA.—At a late meeting of the New York Academy of Medicine Dr. E. R. Squibb thus discoursed on some of the popular preparations of the day.

Persons are apt to use a remedy, and extol it in medical text-books and journals, without giving it a fair trial, thus creating a fashion in medicine. True progress is entirely different from fashion in medicine. In regard to the subject of *anæsthetics*, and the mortality from their use, he has not, in the course of his extensive reading of home and foreign journals, seen a case of death in this country, and only two or three abroad during the year. This is accounted for by the little use of chloroform and the predominance of ether; and the day is coming when the former will be confined only to the branch to which it belongs—the obstetrical.

Bromide of potassium is more within the control of the profession than it was, and has taken its proper place in the materia medica. Many times it is given in too small doses, and no good effect is produced. The doses should be large enough to get up bromism. Sometimes fifteen or twenty grains will do it, but in his experience forty, fifty, or sixty-grain doses are called for. As a hypnotic, twenty-five-grain doses are essential. He recollected a remark of Prof. Van

Buren, that in order to get iodism he gave iodide of potassium in sufficient doses—as high sometimes as one-ounce doses. The same rule is applicable to the administration of bromide of potassium.

Alkaloids, or active principle of drugs. No one expects to get from the salts of morphia the same relief as from pure opium itself, although one grain of morphia equals six grains of opium. He believes that good opium will be the standard of the profession after all. The chemical processes in use for abstracting the alkaloids deteriorate the anodyne properties, and are destructive to the anodynes of our fathers. If practitioners were better satisfied to use the pure original anodynes, without being tortured, the results would be more satisfactory. It has been a great fashion to have fine-looking white alkaloids, which are made at the expense of medicinal qualities; for every time they are bleached by the chemist a portion of the valuable property is lost.

Another subject of importance is the *dietary of the sick*. The various extracts of meat sold at the stores are of little value. There is not one of them which is advertised which will bear out the remark of Dr. Christison, "they arrest waste, but do not keep up the supply." His impression is that there is not as much against the use of solid food or aliment in disease as has been said against it. The stomach is not a chemical laboratory or "a kitchen for cooking food," as Abernethy wisely remarked. Food should not be subjected to the ordeal of chemists, as the fashion is.

Among the articles that have been introduced in the dietary department, and has taken a firm stand in the materia medica, is *pepsin*. Generally, however, patients have been in the habit of taking starch rather than pepsin. Once get up a reputation concerning a certain variety of this agent, the manufacturer has a good start for making money. Some specimens examined were good and others were bad. The name of the maker is no guarantee, as it may be good at one time and poor at

another. While the proprietor is looking after the money column, the manufacturer is intrusted to another. The fresh supply of pigs' stomachs must come from the western pork-markets.

The pancreatic emulsions and preparations of bismuth and pepsin, so fashionable now, can not be recommended. Bismuth and pepsin can not exist together. Those fashionable mixtures of beef and iron, as *Vinum cibi*, *Vinum cibi et ferri cum cinchona*, etc., are gross frauds; only money is in them. Hardly any cod-liver oil will pass muster except it is tasteless; and his impression is that many of these preparations are not cod-liver oil at all—only oil made up for the market. Good oils should neither be too dark nor too light, but of a medium color. The dark varieties are made of livers in a state of decomposition. There are good cod-liver oils in market which come from Norway and Newfoundland. The reason that the Norwegian oil is less rancid than others is because it is never made at a less temperature than fifty degrees; consequently decomposition is avoided. Oil when in use should be kept in a cool place, as a refrigerator, and after each dose is given the glass should be thoroughly washed. Small pieces of ice put in the doses of disagreeable substances, like cod-liver oil, renders the agent almost tasteless. Those physicians who eschew the fashionable remedies take to the syrups, such as Aiken's syrup, etc. The lacto-phosphate of iron is based on fallacies like the others; but it is very taking, and is advocated by Horsford and others. Physicians are anxious to get solutions of phosphorus into the stomach, but before it gets there it becomes oxidized.

Another popular fallacy of the day is the use of sugar-coated pills or medical confectionery. Coroners have found these pills, after death, in the stomach and intestines undissolved. Medicines should be given in such a shape that they will be quickly dissolved. It is not an easy matter to get the hard coat off the pills. Glycerine should be used in

compounding pills, to render them soft. Pills made in this way are easily dissolved in the stomach. He has been astonished that Blancard's pill has been so useful as has been stated, it being covered with a metallic coat. Medicines in capsules are not to be advocated, they being not easily dissolved.

The use of various forms of divided medicines, particularly "The Divided Medicine Company's" preparations, is another fallacy. It is nothing new, but an old way of preparing medicines. This way of dosing might be good if the physician would put the medicine up, but to purchase these preparations of companies is dangerous pharmacy.

Rhubarb in squares, covered with powder, is not desirable. Physicians should get the Chinese rhubarb, in solid state, and then they know what it is.

Disinfectants, like chloralum or chloride of aluminium, are fashionable agents. The sulphate of aluminium is better than the latter, but it is old; so, to popularize it, Prof. Gamgee took the chloride. To improve it in this country we have taken the name of bromo-chloralum. Wastes of chemical manufactures are to be the source of disinfectants for health-boards. Copperas, or sulphate of iron, and carbolic acid are all that can be desired.

CHLORAL IN VENEREAL ULCERS.—Dr. F. Accettella has found chloral as a topical application in this affection superior to the acid nitrate of mercury. After the first applications the bottoms of the ulcers cleaned off, healthy granulations sprang up, and the ulcers were converted into simple sores. He used fifteen grains of chloral hydrate to the drachm of water, brushed lightly over the surface of the ulcer. For erosions and simple ulcerations he employs a more dilute solution.

Notes and Queries.

THE BRITISH MEDICAL ASSOCIATION.—The Address on Medicine before this body at its late meeting was delivered by Dr. Samuel Wilks. Among many very curious things said by the distinguished physician of Guy's Hospital we make room for the following extracts:

"Is there a vis Medicatrix Nature?"—We have no right to select a particular instance of a natural process, and declare that a conservative action is in operation, any more than choose another case and call the action destructive. The forces of nature go blindly on, heedless of results, and can not be spoken of as if they were half intelligent powers with benevolent or baneful objects in view. Such notions would show that we had not reached the true scientific method, but, according to Compté, were still in the metaphysical stage of thought, when external agencies were supposed to be ruling the world. If we once admit them into our nomenclature, we are led into countless contradictions. If, instead of regarding the hypertrophy of the ventricle in the case of obstruction of the blood-vessels as a result of a simple physiological law, we speak of it as a conservative process, we are immediately reminded of the wrongfulness of the expression when we see this same conservative process causing the rupture of a vessel in the brain, and killing the proprietor; or if we choose to call the blocking-up of the blood-vessels as they pass through a cavity in the lung conservative, how are we to name the same process when it tends to the mortification of an organ, and perhaps the death of the patient? These laws are natural laws, and often not even strictly physiological; for where is

the difference between the case of enlargement of the superficial veins when the vena cava is obstructed and that of dirty water finding its way by the gutters when the main sewer is choked? If a conservative power preside in the one case, does it not in the other? I may be allowed to say that I do not take up this subject as the question of the hour, but am giving you the result of my matured thoughts, and such as I have always taught. I have always regarded such terms as conservative, elimination of disease, '*vis medicatrix*,' as purely metaphysical, and having no place in the vocabulary of medicine. This last term I discarded from my earliest student days, for I well remember when a surgical teacher used the expression with reference to a case of fractured skull, and when, notwithstanding that curative nature was to step in and mend it, the patient was seen on the post-mortem table a few days afterward with inflammation of the brain, I remarked, in terms which were considered almost sacrilegious, that the man would have lived with a crack in his skull if nature's *vis medicatrix* had not stepped in and killed him. I am convinced that when we occupy our minds with metaphysical entities, and talk of conservative powers of nature, vital principles, and such like vague terms, we are hindering scientific discovery by implying that there are agencies at work behind the phenomena which we witness. I confess I do not know the intentions of nature, and whether, when a man is purged in cholera, nature is endeavoring to cure him or to kill him. The doctor says the former, the social statistician says the latter. I remember, too, we used to be told that not only disease itself but even an accident might contain within itself the element of repair; for example, a thorn which sticks in the skin would set up an inflammation and abscess, and thus be discharged. The very source of mischief contained the cure. A very striking and ridiculous rebuff to this doctrine occurred some years ago at my hospital in the case of a young man who, having had too much to drink, fell off a plank while

crossing to his ship, and was nigh being drowned. On his recovery he was lectured on the serious consequences of spirit-drinking; whereat he replied that, on the contrary, he had been informed that it was nothing but the brandy in his stomach which had restored him to life.

"Treatment—Scientific and Empirical.—A scientific treatment seems to me to require a knowledge of disease to understand the meaning of the symptoms, and then to have a better acquaintance with the action of drugs. Why, look at the pulse; every one can feel a pulse and understand its indications, except some of those clear-sighted men with whom we sometimes meet, and who declare that it takes a life-time to understand its significance. Think for a moment of the pulse, and some of the more evident circumstances which must influence it, or rather regard it as the resultant of a number of forces variously combined. Why, the machinery is far more complex than any you manufacture in this town. There is the ventricle itself, affecting the pulse by the force, number, and regularity of its beats; then there is the condition of the orifice; then of the blood-vessel, its size and elasticity; thirdly, the state of the channels into which the fluid flows; again, the receptacles beyond them, and their facility or not of receiving the current of blood; then there is the quality of the blood itself; and lastly, the intensity of the controlling influence over all. That all these conditions, and even more, are at work is seen by the varied tracings of the sphygmograph, the importance of which a distinguished physician of this town (Dr. Forster) was one of the first to recognize. Now, I apprehend a true knowledge of the pulse would be the facility of appreciating how any one of these conditions mentioned was at fault; and a scientific treatment would be the appropriate remedy for it. I consider the pulse as a case showing the difficulty in acting on scientific principles; for, supposing the sphygmograph should now enable us to administer appropriate treatment, it shows that my proposition was true before

its discovery. My great objection to the idea of scientific therapeutics is, that it necessarily implies acquaintance with diseased action as well as the meaning and importance of symptoms. What, for example, is the scientific treatment of cholera? 'To try and check the fatal discharge,' says one; 'To let it flow,' says another. In the mean time, and while the scientific question is being solved, I consider it a disgrace to the profession that we are not yet agreed as to the best hygienic methods under which the greatest number get well. What, again, is the scientific treatment of fever? This a few years ago would have been considered decided, if unanimity implied truth; for, among other rules, it would have been strictly laid down that while the patient should have fresh air he should by no means be chilled. This idea, however, seems to be a mere phantasm of the human brain; for we now hear that placing the patient in a cold bath is the most successful scientific treatment. So opposed to our notions does the advisability of placing a patient in a cold bath seem, that he who had attempted it years ago would have almost regarded himself as a murderer had the patient died; yet now the treatment is considered rational. As matters of minor consideration in this same disease, we daily ask ourselves whether it is better or not to encourage the sweating; whether it is better or not to remove the articular inflammation; and we make the same inquiries with regard to many other diseases. While we are asking these questions, and obtain no reply, in our present state of ignorance of the signification of symptoms, we point to the man who can show the greatest number of cures as the best practitioner, who is content at present with knowing that he has a large number of valuable drugs in his pharmacopœia, which he finds eminently useful in particular cases; first having made the diagnosis, and then administering the drug. I believe that all reasoning on the matter naturally leads to my conclusion; but if I look around and see what is practically being done, I feel no doubt of the

justice of my remark. I see that the best advisers are those who most skillfully lead their patients through a difficult illness, guided only by experience; whereas I, on the contrary, see the very worst practitioners and the most ignorant among those who act on fancied scientific principles. Again, extra professional persons, who have no knowledge whatever of medicine, are they who are almost exclusively influenced by that kind of reasoning which is styled scientific. A sick man, you know, does not like to take his physic blindly. He will know the why and the wherefore of its administration; and the more clear it is to him that the medicine is to act on this organ, or relieve this or the other symptom, with the greater pleasure does he swallow the dose. The whole train of reasoning must be wrong in such a case; but that is of little consequence to him. All quackery has for its basis science, falsely so called; and it is because of this that uneducated persons are mostly influenced by those who purify the blood or put fresh vitality into the nerves. I may say, moreover, that all quack systems, as well as the worst methods within the pale of orthodoxy, proceed upon the plan of treating symptoms. The more closely a medical man adopts this method, wittingly or not, the nearer does he approach the charlatan. If what I have been saying be true, that changes in the body come about slowly and insidiously, our duty is rather to show how to check their progress, and not to devote ourselves to the treatment of the mere phenomena of the disorder. In so-called gouty persons, with malassimilation and tendency to articular inflammation and deposits of uric acid, much harm is often done by the continual use of alkalies, which often merely cover the presence of the gravel without in any way removing it; or, if the great toe be especially treated, the cause may still remain. When the body has relieved itself by these portals, it may show that the outward and visible signs, in the form of symptoms, are not to be meddled with. This, which has long been recognized in the case of gout,

may be applicable to other diseases, and the relief expressed by a symptom be much greater than could be accomplished by medicine.

'Tho' when small humors gather to gout,
The doctor fancies he has driven them out.'

I think few would hesitate in saying that the medical man is doing much more for his gouty patient by prescribing a suitable regimen and medicine of that kind which operates on the assimilative organs than by attempting to relieve particular symptoms. In like manner, in a case of early phthisis, he would render better service by advising a particular conduct of life than by giving his attention to petty ailments. In acute affections the same may be said. He who treats a typhoid fever, having regard to its natural course and phenomena, would be more likely to meet with success than he who, as was done in past times, meddled with the various organs of the body; and should order vinegar rags for the head, expectorants for the chest, and astringents for the bowels. Some of our methods, without appearing so, may be equally absurd; as, for example, what was once proposed to me in a case of strangulated hernia, to defer the operation until the sickness had ceased. Our object should be to get behind the symptoms, and thus obtain a fair view of the case. Some of the most lamentable spectacles I witness occur in cases of nervous people, who, being treated according to their special wants, have procured for themselves a permanent place on the doctor's sick-list. It is quite true that patients do not want to know anything about pathology. They have their aches, pains, and troubles, and for these they seek advice. It is, of course, the province of the medical man to heed these troubles, and endeavor to relieve them; but nevertheless I contend it is his duty to take, if he can, a just and comprehensive view of the whole case, and, while administering to the wants of the patient, yet not forget his high calling as a scientific man, and act for the general welfare of his patient and of society. He

who simply pleases his patient by attending to local troubles, and does nothing but satisfy the prejudices and ignorances of the public, either has not learned the greater truths which his art and science contain, or is simply converting a noble profession into a trade. If the history of particular minds be identical with the history of the race, we shall find the mass of the public is in accord with the least scientific in our profession. A layman recommends a remedy for a symptom, and offers his friends a medicine for the spasms or a pill for the liver-complaint, and so on. All quacks knowingly and systematically pursue the same course, and the least educated in the profession unwittingly follow a similar method. This is the explanation of such men doing large practices; their ignorance is a means toward success. In the history of the world we see savage nations attempting to exorcise particular pains, having of course no knowledge of their cause. At a later period symptoms are treated; but in proportion to the advances of medicine as a science is the attempt at a wider generalization being constantly made. If scientific treatment had been at the present day in any way perfected, how were it possible that, within a few years, bromide of potassium, carbolic acid, and chloral should become in turn universal medicines? If any fact were required to prove the absence of scientific system in the treatment of disease, it would be the universal administration of chloral. Every patient has some bodily uneasiness, or is sleepless, and thus presents symptoms suggesting its use. It is a powerful benumber; but benumbing the sensibilities and paralyzing your patient is not curing his complaint. If a man be raving mad, and you knock him down and stun him, he will be quiet, and you may praise highly the dose which you have given him. The practice might thus be developed into a valuable therapeutic agent, and a trained boxer might give blows on the head of different degrees of force according to the strength of the dose ordered by the prescriber. The method would hold

rank with the universal administration of chloral, and in the hands of an expert might perhaps be more safe.

"I can not leave the subject of treatment without adverting to a method of practice which, I believe, is far from uncommon, and which some delude themselves is philosophic. We are called to a patient, and we feel extreme doubt as to the best plan of action. Two opposite methods of treatment pass through our minds. The case may be one of pneumonia, and we are considering, on the one hand, the value of depletory measures, and on the other of stimulating. We halt between two opinions, and silently saying *in medio tutissimus ibis*, adopt a compromise. Now if, being in doubt, we did nothing, there would be reason in the plan; but to propose to one's self two methods and split the difference is to adopt a treatment which I take to be most unscientific.

"*What is Medical Science?*—In what then does our science consist? According to my idea, we study the peculiar tendencies and disposition of the human frame. We see in it the proneness to various changes and degenerations. We see acute rapid affections running their course in a few days, whose origin is legion. We see the body attacked by causes altogether from without. In all these cases we stand by and watch. We have found various substances in nature, the most valuable having their histories lost in tradition, which are useful in arresting morbid processes or in assisting in the completion of necessary changes. Such medicines, when given as experience dictates, have saved the lives of numbers. This must be positively spoken of digitalis, opium, iodide of potassium, and some other remedies. I say we are still watching, for we do not yet know the value of symptoms; and until we do we have no right to interfere. Our sole duty is to act empirically. Nothing can be said against any system under which the greatest number have recovered. Suppose a number of hungry people crying for bread, and blessing their benefactor who continually supplied their wants,

he would gain more credit than the man with a large political creed, who devised a political scheme to prevent starvation; but undeservedly so, for the latter would be the truer philanthropist. So it is with the art of medicine. Apollo was the god of medicine; and why? 'Because,' says Bacon, 'the variable composition of man's body had made it a body easy to distemper, and therefore the poets did well to conjoin music and medicine in Apollo; because the office of medicine is but to tune this curious harp of man's body, and to reduce it to harmony.' It will be remembered that both the Society of Apothecaries and the College of Surgeons have chosen for their mottoes adjacent lines from Ovid's Daphne, in which Apollo says, '*Opiferaque per orbem dicor,*' and '*Quæ prosunt omnibus artes.*' I think a text for another theme might be got out of the intermediate line,

'Hei mihi! quod nullis amor est medicabilis herbis,'

which might imply that affections having a moral cause must be treated by moral means. Hysteria, for example, is too often perpetuated by the too officious interference of the medical man. Moral means often avail when all the herbs have proved futile. Daphne was right in running away from Apollo when he said he was a doctor."

TRANSACTIONS OF THE KENTUCKY STATE MEDICAL SOCIETY. This little *brochure* has been politely placed on our table by the committee of publication. It contains the proceedings of the Society for 1872, and makes, with the list of members, a pamphlet of eighty pages. We regret that the funds of the Society were not sufficient to authorize a more attractive publication. The matter, we are sure, will be pronounced excellent; but the papers would have been more likely to attract attention if they had appeared in a more imposing dress. In the list of members we were surprised to see the residences of Dr. D. L. Freeman, Dr. H. C. Crist, Dr. C. P.

Mattingly, Dr. James Knapp, and Prof. Robert Peter set down as "unknown." Some might be sarcastic enough to say that "not to know these gentlemen argues one's self unknown;" but such a remark would be most unjust to the committee of publication. Nevertheless they are among the noted physicians of Kentucky. Dr. Knapp is known as one of the solid medical men of Louisville to nearly every physician in the city, and is known to everybody who visited our great Exposition as the owner of the most splendid cabinet of fossils ever collected around the Falls of the Ohio. Moreover, he is known to most of the geologists of Europe, and to every naturalist in America, as a gentleman who has found time in the midst of a laborious practice to enhance the fame of our city by the cultivation of natural science. Prof. Peter has been nearly forty years a public teacher in Lexington, and has won more than a national reputation by his labors in analytical chemistry. We shall endeavor at some future time to find space for a fuller notice of these Transactions.

THE BOSTON FIRE.—Codman & Shurtleff, the well-known makers and importers of surgical and dental instruments, have, we are glad to learn, been so fortunate as to entirely escape all direct loss by the recent fire. Their stores, factories, stock, and machinery were untouched by the conflagration which laid in ruins most of the business part of the city, and which at one time threatened to involve them in the general destruction.

OMISSION.—The article on the *Treatment of Burns*, on page 239, October number of this journal, should have been credited to our valued contemporary, the *Atlanta Medical and Surgical Journal*, for which it was translated by Dr. Charles Rauschenberg, a very accomplished physician of Atlanta.

THE PHYSICIAN AS A PUBLIC EDUCATOR:

INTRODUCTORY ADDRESS

DELIVERED AT THE

OPENING OF THE SESSION OF THE MEDICAL DEPARTMENT
OF THE UNIVERSITY OF LOUISVILLE,
OCTOBER 7, 1872.

By J. M. BODINE, M. D.

PROFESSOR OF ANATOMY AND DEAN OF THE FACULTY.

In coming before this large and brilliant assembly to inaugurate the thirty-sixth medical term of the University of Louisville, I feel not only an unaffected diffidence of my ability to suitably interest you, but an embarrassing sense of the inherent difficulty of meeting completely the requirements of the occasion. How easy a task it may be to hold the attention of a miscellaneous audience upon matters of general interest, I do not know. What it is to teach young men—as anxious to receive as I to communicate—the facts and formularies of a special science, I at least ought to know. But how to combine these two things, so as to instruct or at least usefully impress the one without wearying the other, surpasses, I fear, my powers of adaptation. Perhaps it will be wisest not to try. Of instruction purely technic and professional, you young GENTLEMEN OF THE CLASS

will have a sufficiency before the orchards bloom again, and I incline to think it may be as well—if you will pardon me a Hibernicism—to begin the session with a *holiday*.

While it is not then my purpose to treat you to a homily on methods of study or processes of instruction, yet you will, I trust, see before I have done, and feel after I have done, that what I may have to say is as closely relevant to the work before you—to the special culture for which you come here—as would be an itemized category of your scholarly duties, or a detailed exposition of the University curriculum.

One said of old, “I magnify mine office.” If at the beginning of your work I can help to inspire you with a sense of its excellence and worth, of its surpassing importance and pre-eminent dignity, I shall have the satisfaction of seeing in you that frame of mind most fruitful in the promise of earnest effort and solid acquisition, and at the same time may hope in some degree to interest those whose kindly presence lends grace and encouragement to the opening of your career.

The theme then, to which I shall ask the attention of both classes of my audience is, the Physician as a Public Educator,—or, if you choose, the rank and function of the medical profession as a factor in the civilization of our time.

The office is new. To be sure, doctor always meant teacher, and physician means naturalist. But the import of these names, so applied, has in past times been very restricted. There was little teaching in the case, and scarce any physical knowledge at all. The com-

pounding and administration of simples, with the vain jargon of astrology, comprised the professional *materia* and philosophy.

Let us look for a few moments at this old-time pharmacopœia. A ring made out of the hinge of a coffin was confidently prescribed for the relief of cramps. By driving nails into an oak-tree it was believed that tooth-ache could be prevented. A remedy for headache was to tie round the head a halter that had been used in hanging a criminal. If this rope could not be had then a sovereign remedy was to be found in drying and pulverizing moss that had grown on a human skull: this was to be used as a snuff. It was accepted that by stroking glandular tumors nine times with a dead man's hand they would disappear (the hand of a man who had been hung was preferred). This proceeding not having proved entirely satisfactory it was taught that their removal could be effected by applying to them a piece of flannel dyed nine times blue. The chips of a gallows on which a person had been hung, put into a bag and worn round the neck were reputed to be an unfailing cure for ague. Children suffering from rickets were drawn through a cleft tree,—after which the split wood was bound up and as it united the child grew stronger. Sometimes for this affection children were drawn through a perforated stone.

Paracelsus directed fond mothers to put coral round their infants' necks to protect them against poisons, fits, etc. Plants that had grown in calcareous places were advised for dissolving the stone. Red flowers were recommended for derangements of the blood, and yellow ones for those of the bile. For the *exanthemata* scarlet

wrappings were regarded as sovereign remedies. A cure for intermittent was to take a spider, the larger the better, envelop it with a coating of dough or preserved fruit and then swallow the bolus. When a Cornishman was afflicted with boils, he found a bramble-bush whose stalks were rooted in the ground at both ends, and getting on his hands and knees, he crawled under it. Upon what principle of therapeutics this was based is unknown, but it was believed to be a never-failing cure. For fits, great faith was placed in the curative properties of rings, made from silver coin, voluntarily given the afflicted person by acquaintances of the opposite sex. Mice were at one time very highly esteemed for their medicinal and other qualities. An old book says of them: "The flesh eaten causeth oblivion; it is hot, soft, and fattish, and expelleth melancholy. A mouse dissected and applied, draweth out reeds, darts, and other things that stick in the flesh. Mice bruised and reduced to the proper consistence, with old wine, cause hair on the eyebrows. The Magicians eat them twice a month, against the paines of the teeth. The water in which they have been boiled helps against the quinsey. The ashes of the skinn, applied with vinegar, help the paines of the head. The head worn in a cloth helps the epilepsy. The braine, being steeped in wine, and applied to the forehead helpeth the headache. Used with water it cureth phrensy. The heart, taken out of a mouse when alive, worne about the arms of a woman, causeth no conception. The fillet of the liver, drunk with austere wine, helpeth quartans."

An Irish remedy for scarlet fever and whooping-cough consisted in taking some of the child's hair and

putting it down the throat of a donkey, in the firm belief that the animal would take the disease and the sufferer be relieved. Other remedies for whooping-cough were found in administering shell-lime; using a drinking-cup of ivy; allowing a piebald horse to breathe on the patient; giving nine fried mice, three each day for three days in succession; tying round the patient's neck a bag containing a caterpillar; passing the child nine times under the belly and over the back of a donkey; feeding it on currant-cake made by a woman who did not change her name on getting married, or on bread and butter made in a house the master of which is named John and the mistress Joan; getting the owner of a piebald horse to say what will effect a cure; holding a toad in the child's mouth, in order that it may catch the disease; giving the patient for drink new milk out of a cup made of variegated holly.

These things were not science, they were not even sense. They were such stuff as dreams are made of,—dreams that were the precursors of knowledge. The inauguration of the inductive method, that changed the face of philosophy and has been the nursing-mother of the whole family of the sciences—children of an intellectual resurrection—did away with these phantasies and phantoms, and rebuilt the Art of Healing upon the sure foundations of sound generalization and authentic fact. In thus making the physician what the name imports, *minister et interpres naturæ*, it has placed that Art in the company of the positive knowledges, and made it *Science*. And never since Medicine and Civilization began, has its place in the necessities, the reverence,

and the affections of mankind been so royal and regnant, or its function in society so beneficent, so *providential* if I may so speak, as to-day.

You are aware, doubtless, that the offices of priest and physician were originally one, and were filled by the same individual. That clerical and lay functions were once conjoined the following old-time advertisement will sufficiently show: "Wanted for a family who have had bad health, a sober, steady person in the capacity of doctor, surgeon, apothecary, and man-midwife. He must occasionally act as butler, and dress hair and wigs. He will be required sometimes to read prayers, and to preach a sermon every Sunday. A good salary will be given." Could there be a more economic arrangement for the conservation of body and soul?

Traces of this union are still visible in each of the professions. Practically a permanent divorce has long been accomplished in all enlightened communities, with perspicuous benefit to both interests. And yet when I say to you that the true priest must be *ex necessitate rei* somewhat of a physician, and that the true physician should in like manner be a man who can on occasion administer those moral alteratives and tonics that usually appertain to the office and work of the spiritual curator, I but express what all experienced in either calling have had occasion to realize. It is not a light thing, young gentleman, to have the fate of usefulness that can not be replaced, or of affection that can not be measured, staked on your learning or your skill. It is not a light thing to stand between the living, and the dead. It is no light matter to say to agonized friends, that just before them lies a void which no possibility of human experi-

ence can fill—and to the fast-failing subject of their solitude, that just before him are those Dark Gates whose exit no man knows. Goodness should join with Wisdom, and Faith unite with Science, in such an office.

The early union and present alliance of these two departments of thought and practice may serve as an apology, if one be needed, for some remarks that I shall venture presently to make.

Those who at this day would restrict the definition of the word "physician" to terms descriptive of a mere healer of the sick or manipulator of broken bones, have a very inadequate conception of the place and function of the profession. I have no intention of belittling this most exigent and constant, if not most important element of our work. It is of unsummed—priceless benefaction to mankind every day of every year. All over the world, we are without ceasing, quieting pain, repairing injuries, restoring lost harmonies, readjusting the terms of the life-equation, and saving multitudes from premature death. This, the most careless see. But in addition to this, we are doing, very largely by means analogous to what one of the great lights of our profession called reflex action—a work, which, if less apparent to the senses, is of immeasurably more important bearing upon the physical, social, and moral destiny of mankind.

WE ARE EDUCATING THE AGE.

This is no doubtful assumption. Physiology, hygiene, questions of quarantine and sanitary regulation, are rapidly coming to the front in the interest of the thoughtful even among non-professional men. It is everywhere in

process of recognition that health, the first of blessings, is a subject of law. Vital statistics, both for commercial and beneficiary purposes, are being studied with a zeal and research before unknown. The most recondite resources of the highest mathematics are taxed to supply formulæ for life averages and contingencies. And I greatly mistake the symptoms and presages of the times if henceforth and for several generations to come, questions appertaining to sociology do not outrank those of politics not only in select but in popular interest. And here the laity must come to us for data and direction. It is the subject we deal with most constantly and most intimately. We hear nearly every murmur of discontent, and are summoned to treat almost every lesion. The confessional of pathology—the only confessional where the truth is always told, or if not told is known—is not shut night or day. The woes of the world come to our ears. We are the final repository of its sorrows and its sins. What a revelation of the sad side of humanity would a “combined experience” record of the doctors—make! What work for the moral actuary, to classify from its data the fatal distempers of the soul.

Already we are called to give the verdict of Science upon the most vital questions and issues that concern and interest men. You can not have a murder trial without half a dozen medical gentlemen on the witness-stand. I am sorry for the sake of science, that as a rule they coincide so imperfectly! It is hardly too much to say that you can not hang a man unless a doctor consents to it. It is certain that you can not shut up a recalcitrant lunatic except upon a doctor's commitment. And once in durãnce, all the *habeas corpus* in the land

will not avail against his writ of *ne exeat*. If it be sought to deprive a man of the use and disposal of his property—a thing prohibited by our most fundamental law—it can be done under a commission *de lunatico inquirendo*, if the doctor says yes. If it be desirable to break the last wish and will of some mortal who has passed into Silence, it can *not* be done, if the doctor says no. So you see, my young friends, that we are already holding the fullest hand in the game of life, and are as a class and profession the governing factors in the social activities of the time. Note too, that both by direct instruction and reflex influence, we touch the age at its most inexpressible and initiative points—in its highest ranges of culture and power. With judges and lawyers and jurymen—jurisprudence, legislation, philosophy, and every form of social inquiry and speculation going to school to the doctors, we are, in a sense applicable to no other class of men, educators of public opinion.

But all this brings *responsibility*; and to the conscientious neophyte the gravest *obligation*, to prepare himself wisely and beneficently to fill this great office. It is more than judicial. It is in effect—in general result, that of judge and jury in one.

If ever there was a time when the fountains of the great deep of human society were broken up, that time is now. Aspiration, passion, frailty, and disease, struggle together for permanent being. No "natural selection," so far as I can see, will end the contest. A selection higher, more morally and spiritually elective, than any so-called natural one I venture to think must decide it. It was with a profound conviction that this selection—*salvation*—must be in large part made—wrought—by

that class of workers who touch man in his completest entity and closest relations, that I reluctantly consented to address you to-night.

Look at the times in which we live. "An irreverent, bustling, self-asserting age, in which knowingness, curiosity, wit, covetousness, and publicity, external accomplishments, arts and achievements, have to a degree unknown before taken the place of the deeper passions and richer experiences of the soul; and in which conjugal, love, paternal care, filial reverence, domestic quietude, true friendship, and private peace are so lamentably in abeyance. . . . Man's body, tasked by this quick time, is furrowed with the lash, and begs for mercy,—his nerves have come to the surface with the unnatural strain, his spirits fagged or unduly stimulated send him moping or maudlin to an early grave. . . . An age that with all its resources and achievements has to be busy to save itself from knowing its own destitution, to which leisure is a burden and solitude a calamity."

This age, so affluent and yet so unhappy, is asking all manner of questions. There is nothing so settled or so sacred as to escape its inquest. Every prescription, every institution, is served with process to "show cause." The various forms, social, religious, and political, in which society has crystallized, are regarded as tentative—"imperfect essays toward order and happiness, and no divinely or supernaturally ordained constitution which it would be impious to change."

In the focal light of modern inquiry—fiercer than that which beats round thrones—all usages and beliefs in which the Past has found content or consolation—all

principalities and powers in which it has sought shelter and authority—are placed at bar and made to plead.

The judgment has gone forth, "there is nothing covered that shall not be revealed, and hid that shall not be known." There is much, very much, that is hopeful and promising in this spirit. I am not blind to the fact that society as constituted is bearing a sad entail of shams, and shames, and sins. But the "younger day" to which our world-bettering friends invite us is not to my vision without a cloud. The flush they see on the horizon may be of evening and night instead of dawn.

I am not sure that they even promise us full equivalent for the old quietudes, the old serenities, the old sanctities, that in our fathers' time begirt the homes of men. I am not at all certain that we can include the infinite parabola of man's moral nature in the terms of an algebraic expression. He requires other than economic adjustments. All his springs are in spiritual forces. Least of all creatures can he live by bread alone.

Much is said now-a-days by men wise, and—otherwise,—about "natural selection." It is a wonderful collocation of words—very strong in its simplicity and suggestiveness. We owe Mr. Darwin much for the invention of the phrase—expressing as it does a prerogative truth of natural history;—less strongly though perhaps more clearly rendered by Herbert Spencer—"the survival of the fittest." Well, having paid our cordial tribute to the phrase and to the idea which it represents, what more? We are not going to prostrate ourselves before a formula—the exponent of a thought, a grand thought though it be. Let us see

what it *means*, and what it does *not* mean. Let us briefly trace its *limitations*—and so get its scientific and moral periphery. Does it include the *All*—the ultimate reason, the final cause?

Mr. Darwin, with the candor that belongs to the truly scientific man, acknowledges many flaws and hiatuses in both his data and his reasoning. No one would go further than I in praise of the wholly scientific and truthful spirit he has shown in all his writings. Their weightiest recommendation is in the honest distrust they not unfrequently show of both the sufficiency of his data, and the completeness of his deductions. Let us concede that Mr. Darwin accounts for a great deal of what we see and know, by natural causes:—has he gotten to the bottom of the mystery? Put on all the light you can—will the play of physical forces, the reaction of organism and environment,—natural selection,—the survival of the fittest, define and account for the world of use and beauty as we see it to-day?

It is not too much to say that natural history *seems* with facts that will not generalize under the Darwinian hypothesis. Take a few instances, not merely as marvelous stories which would be interesting to children, but as remarkable facts in nature whose significance can not be mistaken.

The blossoms of the yucca are so constructed that it is impossible for the pollen to reach the stigma, it being glutinous and expelled from the anthers before the flowers open. There is a small white moth that does the work of fertilization, and marvelously is this little creature, called *pronuba yuccasella* (yucca's go-between), adapted to this purpose. The female of the species is very

anomalous, having the basal joint of the maxillary palpus wonderfully modified into a long prehensile spined tentacle. With this tentacle she collects the pollen and thrusts it into the stigmatic tube, and having thus fertilized the flower she consigns a few eggs to the young fruit upon which her young larvæ feed. The plant and its fructifier are inseparable under natural conditions, but in the more northerly parts of the United States and in Europe the insect does not exist, and consequently the yuccas never produce seed in those places.

The female *Coccus* of the Pine locates herself upon the terminal foliage where her future progeny will find themselves in the midst of the freshest and most succulent forage, while the males which have wings and the consequent power of easy locomotion, fix themselves indifferently upon the first vacant space that offers.

It is the common instinct of insects which are wood-borers in their larval state, but which have no such power in their subsequent stages, to gnaw their way to the surface of the tree before they stop feeding, so that they can emerge without obstruction after they have completed their transformation.

The plum gouger (*Anthrononus prunicida*) which in its larval state occupies the kernel of the plum, when it has completed its growth and is ready for its transformation, takes the precaution to gnaw a round hole in the shell through which it may subsequently emerge. If it did not do so it would be fatally imprisoned in its future beetle state within the mature and hardened shell: a result which, however much the pomologist might desire, the gouger under its view of the matter carefully provides against.

The *Nymphalis disippus* lives in its caterpillar state on the willow. It passes the winter inclosed in a willow-leaf rolled into a cylindrical case. But as the leaf would fall like the rest when touched by the frost, or be blown away by the wind, the insect fastens its footstalk with silken threads to the branch on which it grows, and thus securely rides through the frosts and storms of winter.

Those moths whose caterpillars are leaf-eaters always lay their eggs upon that kind of plant or tree upon which it is the nature of their future progeny to subsist, though they may have no other relation to the tree, and though the eggs do not usually hatch till after the death of the parent, and sometimes not till the following year.

Enough, perhaps, in the way of illustration. Why multiply instances when all Nature speaks the same language, and bears with her myriad tongues concurrent testimony to Providence and Design.

"Instinct is not experience. It goes before to preserve life until knowledge from experience is possible. It works by a wisdom of which its possessor has no apprehension."

Referring to the facts just cited, "I can conceive," says Dr. Le Baron, the accomplished State Entomologist of Illinois, "of the formation of a planet by the condensation of nebulous matter in obedience to the law of gravitation. I can form some idea, however unsatisfactory, of the development of organic bodies by the operation of physical laws, responsive to the impressions of surrounding circumstances. But that an insect which was born yesterday, and which will die to-morrow, can, without the invocation of a wisdom superior to her own, adopt a

systematic course of conduct having for its object the safety and welfare of her future progeny which will not enter into active existence till long after she herself will have perished—this passes the bounds of my imagination to conceive. It is said that Galen was converted from atheism by the contemplation of the human skeleton, but I confess that nothing has so strongly impressed upon my own mind the presence of an all-pervading intelligence in nature, as the wonderful prophetic instincts of insects."

Not only do co-ordinations of use, and operations of instinct refuse to come under the Darwinian law, but adaptations of color—the marvelous superposition of beauty upon utility—and of pleasure upon the exercise of function—throughout nature, attest more than molecular consent. I have not time to amplify the argument—I have not time even to state it. But I feel better convinced than of almost any other one thing, that the attempt made in behalf of Natural History and physical science to silence the spiritual testimonies of Nature, will fail. I am of nothing more confident than that these Elder Scriptures, this Senior Revelation, will finally and unmistakably lead us—not indeed to dogmas of creeds outworn—but to a blessed and inexpugnable Faith.

I say this, willing to concede—so far as the argument is concerned, all that any intelligent evolutionist will claim. Admit the Nebular Hypothesis, admit Creation by law, and Government by law—and you have the entire field of unresolved and irresolvable co-ordinations, and the whole boundless domain of man's moral consciousness, witnessing to Prescience, and Purpose, and

Providence, in the order and action of the world. The physical side is but one side, one of the faces, of Nature.

Thoughts are as real as Things. An emotion is no more a nullity than the sweep of Uranus. A conviction is as actual as the mass of Jupiter—none the less an entity—none the less vested with all the prerogatives of Being—because we can not express it in terms of mathematics, or state its value by the standards of dynamical philosophy. So far as we can trace it, the law of genesis is *not* from matter to intelligence, but from intelligence to matter,—matter as the vehicle and expression of intelligence. The pyramids were once a thought; they never could have been objective unless subjective first. No human work was ever done—ever *can* be done, except from a spiritual initiative. What was the steamboat, the railroad, the telegraph—*anything* that man has made actual—in its beginning? An intellection! We hear and read and think much in these mechanical days, of motors—and forget that *motive* is the *primum mobile* of them all. Until all we know of the order of nature is reversed, conception must forever antedate birth.

Our friends of the conservative and clerical side have heard so much bad news of science, that they distrust it, and sometimes quote inapplicable Greek against it, as: 1 Tim., vi-xx. They have had so little encouragement from our quarter that I feel like speaking to them a word of cheer. It is a kind of professional disloyalty to say it—but, we naturalists do not know everything—and are not quite agreed upon what we think we do know. If you knew how we disputed about matters that we have had under consideration for five hundred years—you

would almost think we had taken orders! Let me say, in all seriousness and conviction, that science is the friend and ally of every true human morality, and of every rational human hope. Its influence is far more conservative and constructive than solvent and disintegrative. You *can not* fight it successfully—and you *need not* fight it from a sense of duty. It will give true witness—witness by which its influence or yours must stand or fall. The advice of Gamaliel to the Jews was never more applicable than in this case. None of us have any substantial interest outside of THE TRUTH, whatever that may be. No other motive or sanction can enlist the aspiring and sacrificial elements, strongest and noblest, of our human endowments. There is in reality less quarrel between Science and Religion than appears. Each party is at work on convergent lines. In this, as in other cases, at-one-ment will come. I would not care to teach science, and I would not dare to inculcate faith, if I did not believe, and feel assured that their ultimate goal is the same.

It will be yours in time to come, my young friends, to guard the development of social questions, and while giving candid audience to all rational suggestions for the relief of man's estate, to place the unappealable sentence of Science upon "reforms against nature." Upon you, more than upon any other class of men in preparation for active life, will devolve the settlement of those pivotal and prerogative questions that underlie the most fundamental and salient interests of mankind. And if those interests rest, as I do most undoubtingly believe they do, far more upon loyalties which, not for want of a better

name, I call Christian, than upon any possible scientific adjustments of the social environment, you will, I trust, be prepared to add the verdict of science to the sanctions of religion in favor of those spiritual and social moralities which have so far synchronized with every upward movement of humanity, and whose absence has marked every period of physical, intellectual, and national decline.

You are called then, my young friends, not only to the training embodied in the University course, but to a culture wider and deeper than any University curriculum can supply. There is scarcely a branch of natural science which is not more or less tributary to the calling you have chosen. Inheritors of all the ages—with full usufruct of all the intellectual accumulations of the Past—you will I trust not only appropriate the heritage but increase the store. If you do faithfully and well the preliminary work we here lay out for you, you will be prepared not only safely to enter upon your vocation, but propitiously to matriculate for that higher education where Thought and Work co-operate under the sober influence of Responsibility. And, with maturity of the judgment—that latest and highest fruition of reason and culture—will come such rewards in either the secular or spiritual domain, as you may effectually desire and deserve. May you win large estates in both.

We sometimes hear in this republican country, people spoken of as aristocrats. As usually applied, it is an ignorant and ill-tempered perversion. Aristocracy means the government of the *best*. It is one of the king-words, a word that stands for a beneficent and universal fact. The strong and wise people *do* direct and govern this world, if not outwardly through titles, effectually through

influence. I bid you, my young friends, cordial welcome to the novitiate of this aristocracy of intelligence—the true nobility of our times. I bid you glad welcome to the toils and sacrifices and consecrations—toils of mind, sacrifices of self-indulgence, and consecrations of energy—that are its price and passport. A welcome kindly, and I trust encouraging, to the labors preparatory to your work and mission in this interrogating, revolutionary, and transitional, yet aspiring, providential, and emergent age.

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This Chalybeate Elixir has the flavor of orange flowers with a beautiful transparency and delicate aroma. It is administered in Chlorosis, Debility, and in all cases where Iron may be required. It is the most pleasant and readily assimilable of the ferruginous preparations. Each teaspoonful contains 1 grain of the Iron-salt. Per Gallon, \$5.00. Per Dozen, in Pints, \$9.00.

ELIXIR VALERIANATE OF AMMONIA.

This Elixir combines the sedative properties of Valerian and Aromatic Ammonia without their repulsive flavor and odor. Its therapeutic properties are valuable, in such cases where Iron may be required these agents, such as Nervousness, Headache, Spasms, Hysteria, Sleeplessness, &c. Usually given in doses of one dessert-spoonful. Per Gallon, \$6.50. Per Dozen, in Pints, \$11.00.

WINE OF PEPSIN.

(Elixir of Pepsin.)

A solution of Pepsin, in Malaga Wine with Orange Syrup. Each tablespoonful represents 8 grains Pepsin, to be given before each meal in cases of impaired digestion. Per Gallon, \$11.00. Per Dozen, in Pints, \$18.00.

BITTER WINE OF IRON.

An agreeable and efficient Tonic, combining the Soluble Citrate of Iron and precipitated Extract of Peruvian Bark with Malaga Wine, Oranges and Sugar. Two teaspoonful after each meal is the usual dose.—Per Gallon, \$6.00. Per Dozen, in Pints, \$10.00.

SYRUP OF HYPOPHOSPHITES, of Iron, Lime, Soda and Potassa.

(Dr. Churchill's Remedy for Consumption, &c.)

Each teaspoonful contains 2 grains of the Lime, $1\frac{1}{2}$ grains of Soda, 1 grain Potassa, and $\frac{3}{4}$ grain of the Iron-salt.—Per Gallon, \$6.50. Per Dozen, in Pints, \$9.00.

SYRUP PHOS: Quinine, Iron and Strychnia.

A powerful general tonic, particularly serviceable in cases of Debility and Nervous Prostration, Indigestion, Chlorosis, &c. Given in doses of one dessert-spoonful, which contains 1 grain Phos. Quinine, 2 grains Phos. Iron and $\frac{1}{2}$ grain Strychnia.—Per Gallon, \$10.00. Per Doz. in Pints, \$14.

LOZENGES OF PEPSINE AND IRON.

Comment is unnecessary upon the value of this combination, and we introduce it with the conviction that it will be held as a valuable addition to the list of new remedies. Each Lozenge contains 3 grains Pepsine, $\frac{1}{4}$ grain Pyrophosphate of Iron, combined with Sugar, Vanilla and Ginger.—\$4.00 per Dozen Boxes.

PHYSICIAN'S SUPPLIES A SPECIALTY.



TRADE MARK.

CAUTION.

Physicians and Druggists, in ordering Pills of Iodoform and Iron, will please observe that they are of our manufacture, protected by Trade Mark. We deem it necessary to call your attention to this, as it is said there are pills in the market in which not half the Iodoform is represented; further, you will have noticed that the many remarkable cures detailed in the Medical Journals were effected by our Pills.

The peculiar mode of preparation and combination, from absolutely pure material, has much to do with determining their efficacy.

In ordering it would be well to specify "WARNER & CO.," that you may obtain what you desire.

WILLIAM R. WARNER & CO.,

Wholesale Druggists,

MANUFACTURERS OF

OFFICIAL AND OTHER SUGAR COATED PILLS,

PURE IODOFORM, ELIXIRS AND FLUID EXTRACTS.

No. 154 NORTH THIRD STREET,

PHILADELPHIA.

Price Lists furnished on application.

Liberal Discount for quantities.

Notice to Physicians.

The solubility of Official and other Sugar Coated Pills as made by us, is an indispensable quality, and a matter of so much importance as to command your special attention. An experience of thirteen years, with careful attention and study, has enabled us to achieve a perfection otherwise unattainable.

We claim this art of Sugar Coating, avoiding the necessity of drying so hard as to render them insoluble and inert to make them permanent.

Being extensively engaged in the Wholesale Drug business, and in the manufacture of Standard Official Preparations, and New Remedies, in our own Laboratory, affords us facilities for supplying Physician's orders with all articles of the purest quality at the lowest prices.

A discount of 25 per cent. will be made to Physicians on all orders for Pills amounting to \$10.00 net. Less quantities will be sent by mail or express pre-paid on receipt of catalogue prices. Please specify our make (W. & Co.) when it suits your convenience to order elsewhere. Half freight paid on shipments of Drugs to distant points.

Sold by

ARTHUR PETER & CO.; Louisville, Ky.

PILLS SENT BY MAIL ON RECEIPT OF LIST PRICES.

RELIABLE, SOLUBLE, PERMANENT SUGAR-COATED PILLS AND GRANULES,

(PEERLESS IN QUALITY AND FINISH.)

MANUFACTURED BY

WILLIAM R. WARNER & CO.
Wholesale Druggists and Chemists,
No. 154 NORTH THIRD STREET,
PHILADELPHIA.

MANUFACTURERS OF STANDARD OFFICIAL PREPARATIONS OF U. S. PHARMACOPOEIA.

MANUFACTURERS OF ALL COMPOUNDS AND NEW REMEDIES.

PILLS.	Price per 100	per 800
PIL: Aloes.....	\$ 40	\$1 75
" Comp. U. S. P.....	40	1 75
" et Assafet, U. S. P.....	40	1 75
" et Ferri.....	40	1 75
" et Mastich.....	50	2 25
Ammon., Bromide. 1 gr.....	75	3 50
Anti-bilious, (Vegetable).....	70	3 25
Aperient.....	85	4 00
Assafetida, U. S. P., 2 gr.....	40	1 75
" Comp.....	40	1 75
" et Rhel.....	75	3 50
Bismuth, Subnit., 3 gr.....	75	3 50
" Subcarb., 3 gr.....	75	3 50
Calomel, 1, 2, 3, and 5 gr.....	40	1 75
Cathart. Comp., U. S. P.....	70	3 25
Cathartic Comp. imp:		
Ext. Colocynth Comp.		
" Jalap.....		
Podophyllin.....		
Leptandrin.....	75	3 50
Ext. Hyoscyamus.....		
" Gandian.....		
Oil: Hench Pip.....		
PIL: Camphor et Ext. Hyoscyamus.....		
" Camphor, 1 gr.....	60	2 25
" Ex: Hyoscyamus Eng. 18r.....	60	2 75
" Chapman's Dinner Pills.....	1 00	4 75
" Ceril Oxalat, 1 gr.....	1 00	4 75
" Chinoidin Comp.....	1 00	4 75
" Cinchon. Sulph., 1/4 gr.....	75	3 50
" Coloc. Comp., 3 gr.....	80	3 75
" Colocynth et Hyd. et Ipecac.....	75	3 50
" Copahu. U. S. P., 3 gr.....	30	2 25
" et Ext. Cubebs.....	50	3 75
PIL: Cook's.....		
" Pulv. Aloes Soc: 1 gr.....		
" Rhel, 1 gr.....	50	2 25
" Calomel, 1/4 gr.....		
" Pulv. Sapo. Hlep 1/4 gr.....		
" Diuretic.....	80	2 25
" Dupuytren.....	80	2 25
PIL: Emmenagogues.....		
" Ergotine.....		
" Ext. Helleboro, Nig. 1 gr.....		
" Pulv. Soc. Aloes, 1 gr.....	1 40	5 75
" Ferri Sul. 1 gr.....		
" Oil. Sabina, 1/4 gr.....		
" Fel. Bovinum.....	50	2 25
" Ferri, (Quevenne's) 1 gr.....	50	2 25
" Carb., (Valeto's) 3 grs.....	40	1 75
" Comp. U. S. P.....	40	1 75
" Iodid, 1 gr.....	65	3 00
" Lactat, 1 gr.....	50	2 25
" Pyrophosph., 1 gr.....	40	1 75
" Valer., 1 gr.....	100	4 75
" et Quass. et Nuc. Vom.....	75	3 50
" et Strychnina.....	75	3 50
Gonorrhoea.....	80	3 75
Hepatica.....	80	3 75
Hooper, (Female Pills), 2 1/2 gr.....	45	1 75
Hydargyri, U. S. P., 3 grs.....	40	1 75
" Iod. et Opil.....	75	3 50

PILLS.	Price per 100	per 800
PIL: Iodoform, et Ferri.....	2 25	\$15 00
" Iodoform, 1 gr.....	2 00	14 75
" Ipecac et Opil, 3/4 grs.....	40	2 25
" Leptand, Comp.....	1 00	4 75
" Lupulin, 3 grs.....	40	1 75
" Opil, U. S. P., 1 gr.....	75	3 50
" et Camphor.....	1 00	4 75
" et Camph. et Tannin.....	1 00	4 75
" et Plumet Acet.....	75	3 50
" Phosphorus Comp.....		
" Phosphorus, 1-100 gr. }		
" Ext. Nuc. Vom., 1/4 gr. }		
" Potass. Iodid, 3 grs.....	25	4 00
" Quinine Sulph., 3 grs.....	5 75	13 50
" 3 grs.....	4 00	19 75
" Comp.....	1 75	8 50
" et Ext. Belladon.....	1 75	8 50
" et Ferri.....	1 75	8 50
" et Hydrag.....	1 75	8 50
" et Ferri et Strych.....	1 75	8 50
" " Valer., 3 grs.....	3 80	17 25
" Rhel. Comp., U. S. P.....	75	3 50
" Rhel et Hydrag.....	80	3 75
" Rheumatic.....	90	4 25
" Zinc Valerian, 1 gr.....	1 00	4 75

GRANULES.

Accurate methods and the greatest care are employed in dividing these minute doses to render them uniform and accurate.

Acid. Arsenious, 1-20, 1-30 & 1-50 grs	40	\$1 75
Aconita, 1-50 gr.....	75	3 50
Atropia, 1-50 gr.....	75	3 50
Corrosive Sublimate, 1-12, 1-30, 1-40 gr.....	40	1 75
Digitalin, 1-50 gr.....	75	3 50
Klatterium, (Clutterbuck's) 1-10 grs.....	55	4 50
Extract Cannabis Indica, 1/4 gr.....	60	2 75
" Hyoscyamus, (Eng.) 1/4 gr.....	40	1 75
" Nux Vomica, 1/4 gr.....	40	1 75
Hydrastin, 1/4 gr.....	35	4 80
Mercury Iodide, 1/4 gr.....	40	1 75
" Red, 1-16 gr.....	40	1 75
Morphia Acet, 1 gr.....	70	3 25
" Sulph., 1-10 gr.....	60	2 75
" 1/2 gr.....	70	3 25
" 1/4 gr.....	80	3 75
" 1/8 gr.....	1 00	4 75
" Valer.....	1 00	4 75
Podophyllin, 1/4 gr.....	50	2 25
Podophyllin Comp.....		
" Podophyllin, 1/4 gr.....		
" Ext. Hyoscyam, 1/4 gr.....	75	3 50
" Nux Vom, 1-16 gr.....		
Quina Valerianate, 1/4 gr.....	2 00	9 75
Silver Nitrate, 1/4 gr.....	75	3 50
Strychnia, 1-20, 30, 40, 50 grs.....	40	1 75

Dispensed by Druggists throughout the Country.

32 Pills Sent by Mail on receipt of Catalogue Price.

WARNER'S

PIL: IODOFORM ET FERRI.

A Powerful General Tonic, and Alternative, Valuable as a Remedy in

SCROFULA, ANEMIA, NEURALGIA, CHLOROSIS, RHEUMATISM. &c.

We make special mention of these pills of our manufacture, as the medical journals throughout the country contain contributions from reliable authors who have made wonderful cures after having used, without success, all other known remedies.

Each label bears the formula and doses.

We give below a brief extract from a report of the Lehigh County Medical Society, as published in the transactions of the Medical Society of Pennsylvania, June, 1862.

"Internally, I gave quinine and iron and a good nourishing diet. Still I found great trouble in keeping up healthy granulations, they would become sluggish. I tried a number of alternatives, as iodide of potassium and lime. Still the case progressed very slowly until my attention was attracted to an article in the *Medical and Surgical Reporter*, 'On Iodoform and Iron.' I at once concluded to give this remedy a fair trial. I discontinued all other constitutional treatment, and gave three pills three times a day, manufactured by W. R. Warner & Co., of Philadelphia. I soon had the satisfaction of seeing a rapid improvement. The pain at once left her limb, with which she had suffered continually; the granulations became more healthy and more abundant, and I now have the satisfaction of seeing my patient engaging in all her household duties. *Not a vestige of the disease is to be seen. The patient is enjoying perfect health, is active and lively.*

"Since, I have treated two other cases, one of three and one of four years' standing, with the same good result. I feel convinced of the efficacy of the remedy.

P. L. REICHARD,
Chairman Sanitary Committee.

32 We furnish with orders, or when requested, a treatise in pamphlet form, detailing cures effected, and cases to which it is applicable. Price of Pills per hundred, \$3.25. Liberal Discount for quantities.

PIL: PHOSPHORUS COMP:

Containing Phosphorus, One-hundredth Grain. Ext. Nux. Vomica, One-fourth Grain.

32 per Hundred. Liberal discount for quantities.

Phosphorus is an important constituent of the animal economy, particularly of the brain and nervous system, and is regarded as a valuable remedy for diseases common to them,—as in cases of Lapses of Memory, Softening of the Brain, Loss of Nerve Power, Pthisis, Paralysis and Impotency. The pulular form has been deemed the most desirable for the administration of Phosphorus. It is in a perfect state of Subdivision, as it is incorporated with Glycerine, &c., in solution.

Dr. G. Dejardin Beaumetz, of the Hospital de la Peste, Paris, concludes, after an elaborate study of the action of phosphorus in locomotor ataxia, that—1. Phosphorus appears to have a favorable influence in progressive locomotor ataxia. 2. Phosphorus acts as an excitant and as a tonic to the nervous system. It returns to the nervous tissue an indispensable element. 3. The administration of phosphorus should be commenced in small doses, one milligramme (about the 1-60 of a grain,) and increased gradually. The administration should cease when digestive troubles supervene.—*Bulletin General de Therapeutique*, Jan. 15th, Feb. 15th, March 15th, 1862.

Private Formulæ and Special Orders for Pills.

We are prepared to execute Special orders or private receipts for any quantities not less than 3,000, it being impracticable to coat a less number. With a view to proper manipulation it is desirable to know the composition, we will therefore supply the ingredients, and give the lowest estimates therefor. To fill your orders it will require but a week or a few days, except in rare instances. The larger the quantity the more elegant the finish.

MR. WILLIAM R. WARNER, *Pharmaceutical Chemist, Philadelphia.*

MY DEAR SIR:—You have submitted for my inspection, various samples of your Sugar-Coated Pills. I have examined them carefully and can pronounce them both perfect and elegant. I speak from my personal knowledge of your character and ability, and I regard the length of your practical experience in manufacturing them as a specialty, as the surest guarantee of their excellence.

Yours, very respectfully,

JOHN M. MAISCHE, *U. S. Army Laboratory.*
(Now Professor in Philadelphia College of Pharmacy.)

Yours, &c., 1862.

Please Specify our make (Wm. R. Warner & Co.,) when it suits your convenience to order through other houses.

WM. R. WARNER & CO'S, NEW REMEDIES AND PHARMACEUTICAL PRODUCTS.

These preparations are offered to supply what seems a growing necessity. They constitute most efficient remedies, made agreeable to the taste with Wine, Sugar and Aromatics, and meet with a ready endorsement by the most eminent of the profession.

VINUM GOSSYPII RADIX RECENTIS. (Warner & Co.)

(Wine of the Fresh Cotton Root Bark.)

We offer this as the most reliable preparation of Cotton Root Bark, so celebrated as an Emmenagogue and Parturient; also valuable as a remedy in Chlorosis and Anemia. It acts with much more certainty and efficacy than Ergot, without the disagreeable effects attending the administration of the latter, as it produces no pain or gastric disturbances and no other effect than the promotion of the menses. Being made from the recent root, gathered in the proper season guarantees uniform results, while it affords a preparation pleasing to take.

Dose.—One to two tablespoonful three times a day.—In Pints, \$2.50.

ELIXIR TARAXACUM COMP.

This is a new and valuable combination of the medicinal properties of the Tandelion, Wild Cherry and Gentian, associated with Aromatics. It is a very agreeable and efficient remedy. Aside from its medicinal virtues it is useful as a vehicle and for masking the bitter taste of Quinia.

A tablespoonful three or four times a day is the usual dose.—Per Gallon, \$4.00. Per Dozen, Pints, \$7.00.

ELIXIR CINCHONIA CALISAYA.

(Yellow Peruvian Bark.)

This Tonic Elixir, so agreeable to the taste, comprises all the active principles of the Calisaya Bark, in their native combination, and derives additional energy from its association with several of the most grateful Aromatic Tonics.

It is admirably adapted to convalescents as an effective invigorator and restorative, rapidly improving the appetite and impaired digestion, and contributing much to the cheerfulness and buoyancy of mind.—Per Gallon, \$5.00. Per Dozen, in Pints, \$9.00.

ELIXIR CALISAYA, Iron and Strychnia.

Possessing the tonic and antiperiodic properties of its valuable ingredients above named, presented in the form of a delightful aromatic cordial. Each dessert-spoonful contains 1-20 grain Strychnia and 1 grain Pyrophosphate of Iron.—Per Gallon, \$7.00. Per Dozen in Pints, \$12.00.

ELIXIR PYROPHOSPHATE OF IRON.

This Chalybeate Elixir has the flavor of orange flowers with a beautiful transparency and delicate aroma. It is administered in Chlorosis, Debility, and in all cases where Iron may be required. It is the most pleasant and readily assimilable of the ferruginous preparations. Each teaspoonful contains 1 grain of the Iron-salt. Per Gallon, \$5.00. Per Dozen, in Pints, \$9.00.

ELIXIR VALERIANATE OF AMMONIA.

This Elixir combines the sedative properties of Valerian and Aromatic Ammonia without their repulsive flavor and odor. Its therapeutic properties are valuable, in such cases as would require these agents, such as Nervousness, Headache, Spasms, Hysteria, Sleeplessness, &c. Usually given in doses of one dessert-spoonful. Per Gallon, \$6.50. Per Dozen, in Pints, \$11.00.

WINE OF PEPSIN.

(Elixir of Pepsin.)

A solution of Pepsin, in Malaga Wine with Orange Syrup. Each tablespoonful represents 8 grains Pepsin, to be given before each meal in cases of impaired digestion. Per Gallon, \$11.00. Per Dozen, in Pints, \$18.00.

BITTER WINE OF IRON.

An agreeable and efficient Tonic, combining the Soluble Citrate of Iron and precipitated Extract of Peruvian Bark with Malaga Wine, Oranges and Sugar. Two tea-spoonful after each meal is the usual dose.—Per Gallon, \$6.00. Per Dozen, in Pints, \$10.00.

SYRUP OF HYPOPHOSPHITES, of Iron, Lime, Soda and Potassa.

(Dr. Churchill's Remedy for Consumption, &c.)

Each teaspoonful contains 2 grains of the Lime, 1½ grains of Soda, 1 grain Potassa, and ¾ grain of the Iron-salt.—Per Gallon, \$6.50. Per Dozen, in Do., \$9.00.

SYRUP PHOS: Quinine, Iron and Strychnia.

A powerful general tonic, particularly serviceable in cases of Debility and Nervous Prostration, Indigestion, Chlorosis, &c. Given in doses of one dessert-spoonful, which contains 1 grain Phos. Quinine, 2 grains Phos. Iron and 1-20 grain Strychnia.—Per Gallon, \$10.00. Per Doz. in Do., \$14.

LOZENGES OF PEPSINE AND IRON.

Comment is unnecessary upon the value of this combination, and we introduce it with the conviction that it will be held as a valuable addition to the list of new remedies. Each Lozenge contains 3 grains Pepsine, ¼ grain Pyrophosphate of Iron, combined with Sugar, Vanilla and Ginger.—\$4.00 per Dozen Boxes.

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MANUFACTURERS OF ALL COMPOUNDS AND NEW REMEDIES.

MANUFACTURERS OF STANDARD OFFICIAL PREPARATIONS OF U. S. PHARMACOPEIA.

PILLS.		Price per 100	per 500
PIL: Aloes		\$ 40	\$1 75
" Comp. U. S. P.		40	1 75
" et Assafet. U. S. P.		40	1 75
" et Ferri		40	1 75
" et Mastich		50	2 25
Ammon. Bromide, 1 gr.		75	3 50
Anti-bilious (Vegetable)		75	3 25
Aperient		85	4 00
Asafoetida, U. S. P., 2 gr.		40	1 75
" Comp.		40	1 75
" et Rhei		75	3 50
Bismuth, Subnit., 3 grs.		75	3 50
" Subcarb., 3 grs.		75	3 50
Calomel, 1, 2, 3, and 5 grs.		40	1 75
Cathart. Comp., U. S. P.		70	3 25
Cathartic Comp. Imp.			
Ext. Colocynth Comp.			
" Jalap.			
Podophyllin.			
Lepidandria.		75	3 50
Ext. Hyoscyamus.			
" Gentian.			
Ol. Henth Pip.			
PIL: Camphor et Ext. Hyoscyamus.			
" Camphor, 1 gr.		50	2 25
" Ex: Hyoscyamus Eng. 1 gr.			
Chapman's Dinner Pills.		50	2 25
Ceril Oxalat., 1 gr.		1 00	4 75
Chinoidin. Comp.		1 00	4 75
Cinchon. Sulph., 1 1/2 gr.		75	3 50
Coloc. Comp., 3 grs.		50	2 25
Colocynth et Hyd. et Ipecac.		75	3 50
Copaiba. U. S. P., 3 grs.		50	2 25
" et Ext. Cubeba.		50	2 25
PIL: Cook's			
" Pulv. Aloes See: 1 gr.			
" Rhei, 1 gr.		50	2 25
" Calomel, 1/2 gr.			
" Pulv. Sapo. Hesp 1/2 gr.			
" Diuretic.		50	2 25
Dupuytren		50	2 25
PIL: Emmenagogue.			
Ergotine.			
Ext. Hellebore, Nig. 1 gr.			
Pulv. Soc. Aloes, 1 gr.		1 50	6 75
" Ferri Sul.			
Ol. Sabina, 1/2 gr.			
" Fel. Bovinum.		50	2 25
" Ferri (Quavenna's) 1 gr.		50	2 25
" Carb. (Valer's) 3 grs.		40	1 75
" Comp. U. S. P.		40	1 75
" Iodid., 1 gr.		65	3 00
" Lactat., 1 gr.		50	2 25
" Pyrophosph., 1 gr.		40	1 75
" Valer., 1 gr.		1 00	4 75
" et Quass. et Nuc. Vom.		75	3 50
" et Strychnine.		75	3 50
Gonorrhoea.		50	2 25
Hepatica.		50	2 25
Hooper (Female Pills), 2 1/2 gr.		40	1 75
Hydrargyri, U. S. P., 3 grs.		40	1 75
" Iod. et Opil.		75	3 50
PILLS.		Price per 100	per 500
PIL: Iodoform, et Ferri.		3 25	\$16 00
" Iodoform, 1 gr.		3 00	14 75
" Ipecac et Opil, 3/4 grs.		80	3 25
" Lepand. Comp.		1 00	4 75
" Lupulin, 3 grs.		40	1 75
" Opil, U. S. P., 1 gr.		75	3 50
" et Camphor.		1 00	4 75
" et Camph. et Tannin.		1 00	4 75
" et Plumbi Acet.		75	3 50
Phosphorus Comp.			
" Phosphorus, 1-100 gr.			
" Ext. Nuc. Vom., 1/2 gr.			
" Potass. Iodid., 2 grs.		30	4 00
" Quinine Sulph., 2 grs.		2 75	13 50
" 3 grs.		4 00	19 75
" Comp.		1 75	8 50
" et Ext. Belladon.		1 75	8 50
" et Ferri.		1 75	8 50
" et Hydrarg.		1 75	8 50
" et Ferri et Strych.		1 75	8 50
" " Valer., 2 grs.		3 50	17 25
" Rhei, Comp., U. S. P.		75	3 50
" Rhei et Hydrarg.		-80	3 75
" Rheumatic.		90	4 25
" Zinci Valerian, 1 gr.		1 00	4 75
GRANULES.			
* Accurate methods and the greatest care are employed in dividing these minute doses to render them uniform and accurate.			
Acid. Arsenious, 1-20, 1-30 & 1-50 gr.	40	\$1 75	
Aconita, 1-60 gr.	75	3 50	
Atropia, 1-60 gr.	75	3 50	
Corrosive Sublimat., 1-12, 1-20, 1-40 gr.	40	1 75	
Digitalin, 1-60 gr.	75	3 50	
Elaterium, (Clutterbuck's) 1-10 gr.	50	4 00	
Extract Cannabis Indica, 1/2 gr.	60	2 75	
" Hyoscyamus, (Eng.) 1/2 gr.	40	1 75	
" Nux Vomica, 1/2 gr.	40	1 75	
Hydrastin, 1/2 gr.	95	4 50	
Mercury Iodide, 1/2 gr.	40	1 75	
" Red, 1-16 gr.	40	1 75	
Morphia Acet., 1 gr.	70	2 25	
" Sulph., 1-10 gr.	60	2 75	
" 1/2 gr.	70	3 25	
" 1/4 gr.	80	3 75	
" 1/8 gr.	1 00	4 75	
" Valer.	1 00	4 75	
Podophyllin, 1/2 gr.	50	2 25	
Podophyllin Comp.			
" { Podophyllin, 1/2 gr.			
" { Ext. Hyoscyam., 1/2 gr.	75	3 50	
" { " Nuc. Vom., 1-16 gr.			
Quina Valerianate, 1/2 gr.	2 00	9 75	
Silver Nitrate, 1/2 gr.	75	3 50	
Strychna, 1-20, 30, 40, 60 gr.	40	1 75	

Dispensed by Druggists throughout the Country.

Pills Sent by Mail on receipt of Catalogue Price.

WARNER'S

PIL: IODOFORM ET FERRI.

A Powerful General Tonic, and Alterative, Valuable as a Remedy in

SCROFULA, ANEMIA, NEURALGIA, CHLOROSIS, RHEUMATISM. &c.

We make special mention of these pills of our manufacture, as the medical journals throughout the country contain contributions from reliable authors who have made wonderful cures after having used, without success, all other known remedies.

Each label bears the formula and doses.

We give below a brief extract from a report of the Lehigh County Medical Society, as published in the transactions of the Medical Society of Pennsylvania, June, 1863.

"Internally, I gave quinine and iron and a good nourishing diet. Still I found great trouble in keeping up healthy granulations, they would become sluggish. I tried a number of alteratives, as iodide of potassium and lime. Still the case progressed very slowly until my attention was attracted to an article in the *Medical and Surgical Reporter*, 'On Iodoform and Iron.' I at once concluded to give this remedy a fair trial. I discontinued all other constitutional treatment, and gave three pills three times a day, manufactured by W. R. Warner & Co., of Philadelphia. I soon had the satisfaction of seeing a rapid improvement. The pain at once left her limb, with which she had suffered continually; the granulations became more healthy and more abundant, and I now have the satisfaction of seeing my patient engaging in all her household duties. Not a vestige of the disease is to be seen. The patient is enjoying perfect health, is active and lively.

"Since, I have treated two other cases, one of three and one of four years' standing, with the same good result. I feel convinced of the efficacy of the remedy.

P. L. REICHARD,
Chairman Sanitary Committee.

— We furnish, with orders, or when requested, a treatise in pamphlet form, detailing cures effected, and cases to which it is applicable. Price of Pills per hundred, \$3.25. Liberal Discount for quantities.

PIL: PHOSPHORUS COMP:

Containing Phosphorus, One-hundredth Grain. Ext. Nux. Vomica, One-fourth Grain.

\$3.25 per Hundred. Liberal discount for quantities.

Phosphorus is an important constituent of the animal economy, particularly of the brain and nervous system, and is regarded as a valuable remedy for diseases common to them,—as in cases of Lapse of Memory, Softening of the Brain, Loss of Nerve Power, Phthisis, Paralysis and Impotency. The pillular form has been deemed the most desirable for the administration of Phosphorus. It is in a perfect state of Subdivision, as it is incorporated with Glycerine, &c., in solution.

Dr. G. Dujardin Beaumetz, of the Hospital de la Pitié, Paris, concludes, after an elaborate study of the action of phosphorus in locomotor ataxia, that—1. Phosphorus appears to have a favorable influence in progressive locomotor ataxia. 2. Phosphorus acts as an excitant and as a tonic to the nervous system. It returns to the nervous tissue an indispensable element. 3. The administration of phosphorus should be commenced in small doses, one milligramme (about the 160th of a grain,) and increased gradually. The administration should cease when digestive troubles supervene.—*Bulletin Général de Thérapeutique*, Jan. 15th, Feb. 6th, March 15th, 1863.

Private Formulæ and Special Orders for Pills.

We are prepared to execute Special orders or private receipts for any quantities not less than 2,000, it being impracticable to erect a less number. With a view to proper manipulation it is desirable to know the composition, we will therefore supply the ingredients, and give the lowest estimates therefor. To fill your orders it will require but a week or a few days, except in rare instances. The larger the quantity the more elegant the finish.

MR. WILLIAM F. WARNER, Pharmaceutical Chemist, Philadelphia.

MY DEAR SIR:—You have submitted for my inspection, various samples of your Sugar-Coated PILLS. I have examined them carefully and can pronounce them both perfect and elegant. I speak from my personal knowledge of your character and ability, and I regard the length of your practical experience in manufacturing them as a specialty, as the surest guarantee of their excellence.

Yours, very respectfully,

JOHN M. MATSCH, U. S. Army Laboratory.
(Now Professor in Philadelphia College of Pharmacy.)

Nov. 22, 1863.

Please Specify our make (Wm. R. Warner & Co.) when it suits your convenience to order through other houses.

WM. R. WARNER & CO'S, NEW REMEDIES AND PHARMACEUTICAL PRODUCTS.

These preparations are offered to supply what seems a growing necessity. They constitute most efficient remedies, made agreeable to the taste with Wine, Sugar and Aromatics, and meet with a ready endorsement by the most eminent of the profession.

VINUM GOSSYPH RADIX RECENTIS. (Warner & Co.) (Wine of the Fresh Cotton Root Bark.)

We offer this as the most reliable preparation of Cotton Root Bark, so celebrated as an Emmenagogue and Parturient; also valuable as a remedy in Chlorosis and Anaemia. It acts with much more certainty and efficacy than Ergot, without the disagreeable effects attending the administration of the latter, as it produces no pain or gastric disturbances and no other effect than the promotion of the menses. Being made from the recent root, gathered in the proper season, guarantees uniform results, while it affords a preparation pleasing to take.

Dose.—One to two tablespoonful three times a day.—In Pints, \$2.50.

ELIXIR TARAXACUM COMB.

This is a new and valuable combination of the medicinal properties of the Dandelion, Wild Cherry and Gentian, associated with Aromatics. It is a very agreeable and efficient remedy. Aside from its medicinal virtues it is useful as a vehicle and for masking the bitter taste of Quinine. A tablespoonful three or four times a day is the usual dose.—Per Gallon, \$4.00. Per Dozen, Pints, \$7.00.

ELIXIR CINCHONIA CALISAYA. (Fellow Peruvian Bark.)

This Tonic Elixir, so agreeable to the taste, comprises all the active principles of the Calisaya Bark, in their native combination, and derives additional energy from its association with several of the most grateful Aromatic Tonics.

It is admirably adapted to convalescents as an effective invigorator and restorative, rapidly improving the appetite and impaired digestion, and contributing much to the cheerfulness and buoyancy of mind.—Per Gallon, \$5.00. Per Dozen, in Pints, \$9.00.

ELIXIR CALISAYA, Iron and Strychnia.

Possessing the tonic and anaphrodisiac properties of its various ingredients above named, presented in the form of a delightful aromatic cordial. Each dessert-spoonful contains 1-20 grain Strychnia and 1 grain Pyrophosphate of Iron.—Per Gallon, \$7.00. Per Dozen in Pints, \$12.00.

ELIXIR PYROPHOSPHATE OF IRON.

This Chalybeate Elixir has the flavor of orange flowers with a beautiful transparency and delicate aroma. It is administered in Chlorosis, Debility, and in all cases where Iron may be required. It is the most pleasant and readily assimilable of the ferruginous preparations. Each teaspoonful contains 1 grain of the Iron-salt. Per Gallon, \$5.00. Per Dozen, in Pints, \$9.00.

ELIXIR VALERIANATE OF AMMONIA.

This Elixir combines the sedative properties of the Valerian and Aromatic Ammonia without their repulsive flavor and odor. Its therapeutic properties are valuable, in such cases as would require these agents, such as Nervousness, Headache, Spasms, Hysteria, Sleeplessness, &c. Usually given in doses of one dessert-spoonful. Per Gallon, \$6.50. Per Dozen, in Pints, \$11.00.

WINE OF PEPSIN. (Elixir of Pepsin.)

A solution of Pepsin, in Malaga Wine with Orange Syrup. Each tablespoonful represents 3 grains Pepsin, to be given before each meal in cases of impaired digestion. Per Gallon, \$11.50. Per Dozen, in Pints, \$18.00.

BITTER WINE OF IRON.

An agreeable and efficient Tonic, combining the Soluble Citrate of Iron and precipitated Extract of Peruvian Bark with Malaga Wine, Oranges and Sugar. Two tea-spoonful after each meal is the usual dose.—Per Gallon, \$6.00. Per Dozen, in Pints, \$10.00.

SYRUP OF HYPOPHOSPHITES, of Iron, Lime, Soda and Potassa (Dr. Churchill's Remedy for Consumption, &c.)

Each teaspoonful contains 2 grains of the Lime, $1\frac{1}{2}$ grains of Soda, 1 grain Potassa, and $\frac{7}{8}$ grain of the Iron-salt.—Per Gallon, \$6.00. Per Dozen, in Doz., \$9.00.

SYRUP PHOS. Quinine, Iron and Strychnia.

A powerful general tonic, particularly serviceable in cases of Debility and Nervous Prostration, Indigestion, Chlorosis, &c. Given in doses of one dessert-spoonful, which contains 1 grain Phos. Quinine, 2 grains Phos. Iron and 1-20 grain Strychnia.—Per Gallon, \$10.00. Per Doz., in Doz., \$14.

LOZENGES OF PEPSINE AND IRON.

Comment is unnecessary upon the value of this combination, and we introduce it with the conviction that it will be held as a valuable addition to the list of new remedies. Each Lozenge contains 3 grains Pepsine, $\frac{1}{4}$ grain Pyrophosphate of Iron, combined with Sugar, Vanilla and Ginger.—\$4.00 per Dozen Boxes.

PHYSICIAN'S SUPPLIES A SPECIALTY.



TRADE MARK.

CAUTION.

Physicians and Druggists in ordering Pills of Iodoform and Iron, will please observe that they are of our manufacture, protected by Trade Mark. We deem it necessary to call your attention to this, as it is said there are pills in the market in which not half the Iodoform is represented; further, you will have noticed that the many remarkable cures detailed in the Medical Journals were effected by our Pills.

The peculiar mode of preparation and combination, from absolutely pure material, has much to do with determining their efficacy.

In ordering it would be well to specify "WARNER & Co.," that you may obtain what you desire.

WILLIAM R. WARNER & CO.,

Wholesale Druggists,

MANUFACTURERS OF

OFFICIAL AND OTHER SUGAR COATED PILLS,

PURE IODOFORM, ELIXIRS AND FLUID EXTRACTS.

No. 154 NORTH THIRD STREET,

PHILADELPHIA.

Price Lists furnished on application.

Liberal Discount for quantities.

Notice to Physicians.

The solubility of Official and other SUGAR COATED PILLS as made by us, is an indispensable quality, and a matter of so much importance as to command your special attention. An experience of thirteen years, with careful attention and study, has enabled us to achieve a perfection otherwise unattainable.

We claim this art of Sugar Coating, avoiding the necessity of drying so hard as to render them insoluble and inert to make them permanent.

Being extensively engaged in the Wholesale Drug business, and in the manufacture of Standard Official Preparations, and New Remedies, in our own Laboratory, affords us facilities for supplying Physician's orders with all articles of the purest quality at the lowest prices.

A discount of 25 per cent. will be made to Physicians on all orders for Pills amounting to \$10.00 net. Less quantities will be sent by mail or express pre-paid on receipt of catalogue prices. Please specify our make (W. & Co.) when it suits your convenience to order elsewhere. Half freight paid on shipments of Drugs to distant points.

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ARTHUR PETER & CO., Louisville, Ky.

PILLS SENT BY MAIL ON RECEIPT OF LIST PRICES.

RELIABLE, SOLUBLE, PERMANENT SUGAR-COATED PILLS AND GRANULES,

(PEERLESS IN QUALITY AND FINISH.)

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WILLIAM R. WARNER & CO.

Wholesale Druggists and Chemists,

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PHILADELPHIA.

MANUFACTURERS OF U. S. PHARMACOPŒIA.

MANUFACTURERS OF ALL COMPOUNDS AND NEW REMEDIES.

PILLS.		Price per 100	per 500	PILLS.		Price per 100	per 500
PIL: Aloes		\$ 40	\$1 75	PIL: Iodoform, et Ferri		3 25	\$10 00
" Comp. U. S. P.		40	1 75	" Iodoform, 1 gr		3 00	14 75
" et Assafet, U. S. P.		40	1 75	" Ipecac et Opil, 3½ grs		80	3 25
" et Ferri		40	1 75	" Leptand, Comp.		1 00	4 75
" et Mastich		50	2 25	" Lupulin, 3 grs		40	1 75
" Ammon, Bromide, 1 gr		75	3 50	" Opil, U. S. P., 1 gr		75	3 50
" Anti-bilious, (Vegetable)		70	3 25	" et Camphor		1 00	4 75
" Aperient, Hyam.		45	4 00	" et Camph. et Tannin		1 00	4 75
" Assafetida, U. S. P., 3 gr		40	1 75	" et Plumbi Acet.		75	3 50
" Comp.		40	1 75	" Phosphorus Comp:			
" et Rhei		75	3 50	" Phosphorus, 1-100 gr.			
" Bismuth, Subnit, 3 grs		75	3 50	" {Ext. Nux Vom, ¼ gr.}			
" Subcarb, 3 grs		75	3 50	" Potass. Iodid, 2 grs		35	4 00
" Calomel, 1, 2, 3, and 5 grs		40	1 75	" Quinine Sulph., 2 grs		2 75	15 50
" Cathart. Comp., U. S. P.		70	3 25	" " 3 grs		4 00	10 75
" Cathartic Comp. Imp:				" Comp.		1 75	8 00
" Ext. Colocynth Comp.				" et Ext. Belladon		1 75	8 00
" Jalap.				" et Ferri		1 75	8 00
" Podophyllin.				" et Hydrarg.		1 75	8 00
" Leptandrin.		75	3 50	" et Ferri et Strych.		1 75	8 00
" Ext. Hyoscyamus.				" " Valer., 3 grs		3 50	17 25
" Gentian.				" Rhei, Comp., U. S. P.		75	3 50
" Ol: Henth Pip.				" Rhei et Hydrarg.		30	3 75
PIL: Camphor et Ext. Hyoscyamus.				" Rheumatic		90	4 25
" Camphor, 1 gr.		50	2 25	" Zinci Valerian, 1 gr		1 00	4 75
" Ex: Hyoscyamus Eng. 1 gr.		80	2 75				
" Chapman's Dinner Pills		100	4 75				
" Ceril Oxalat, 1 gr		100	4 75				
" Chinoidin. Comp.		100	4 75				
" Clinchon. Sulph., 1½ gr		75	3 50				
" Coloc. Comp., 3 grs		80	3 75				
" Colocynth et Hyd. et Ipecac		75	3 50				
" Copalib. U. S. P., 3 grs		50	2 25				
" et Ext. Cubebe		30	3 75				
PIL: Cook's							
" Pulv. Aloes Soc: 1 gr.							
" " Rhei, 1 gr.		50	2 25				
" Calomel, ¼ gr.							
" Pulv. Sapo. Hiss ¼ gr.							
" Diuretic		50	2 25				
" Dupuytren		50	2 25				
PIL: Emmenagogue.							
" Ergotine, 1 gr.							
" Ext. Helleboro, Nig. 1 gr.							
" Pulv. Soc. Aloes, 1 gr.		1 40	4 75				
" Ferri Sul. 1 gr.							
" Ol. Sabina, 1½ gr.							
" Fel. Bovinum		50	2 25				
" Ferri, (Quevane's) 1 gr.		50	2 25				
" Carb. (Valett's) 3 grs.		40	1 75				
" Comp. U. S. P.		40	1 75				
" Iodid, 1 gr		65	3 00				
" Lactat, 1 gr		50	2 25				
" Pyrophosph., 1 gr.		40	1 75				
" Valer., 1 gr		1 00	4 75				
" et Quass. et Nuc. Vom		75	3 50				
" et Strychnin.		75	3 50				
" Gonorrhoea		80	2 75				
" Hepatica		80	3 75				
" Hooper, (Female Pills), 2½ gr		40	1 75				
" Hydrargri, U. S. P., 3 grs		40	1 75				
" " Iod. et Opil.		75	3 50				

GRANULES.

Accurate methods and the greatest care are employed in dividing these minute doses to render them uniform and accurate.

Acid. Arsenious, 1-20, 1-30 & 1-50 gr	\$ 40	\$1 75
Aconita, 1-40 gr	75	3 50
Atropia, 1-20 gr	75	3 50
Corrosive Sublimate, 1-12, 1-20, 1-40 gr	40	1 75
Digitalin, 1-60 gr	75	3 50
Elaterium, (Clutterbuck's) 1-10 gr	95	4 50
Extract Cannabis Indica, ¼ gr	80	2 75
" Hyoscyamus, (Eng.) ¼ gr	40	1 75
" Nux Vomica, ¼ gr	40	1 75
Hydrastin, ¼ gr	95	4 50
Mercury Iodide, ¼ gr	40	1 75
" Red, 1-16 gr	40	1 75
Morphia Acet., 1 gr	70	3 25
" Sulph., 1-10 gr	80	2 75
" " ¼ gr	70	3 25
" " ½ gr	80	3 75
" " 1 gr	100	4 75
" Valer.	1 00	4 75
Podophyllin, ¼ gr	50	2 25
Podophyllin Comp.		
" Podophyllin, ¼ gr.		
" Ext. Hyoscyam, ¼ gr.	75	3 50
" " Nux Vom, 1-16 gr.		
Quina Valerianate, ¼ gr	2 00	9 75
Silver Nitrate, ¼ gr	75	3 50
Strychnia, 1-20, 30, 40, 50 gr	40	1 75

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"Internally, I gave quinine and iron and a good nourishing diet. Still I found great trouble in keeping up healthy granulations, they would become sluggish. I tried a number of alternatives, as iodide of potassium and lime. Still the case progressed very slowly until my attention was attracted to an article in the *Medical and Surgical Reporter*, 'On Iodoform and Iron.' I at once concluded to give this remedy a fair trial. I discontinued all other constitutional treatment, and gave three pills three times a day, manufactured by W. R. Warner & Co., of Philadelphia. I soon had the satisfaction of seeing a rapid improvement. The pain at once left her limb, with which she had suffered continually; the granulations became more healthy and more abundant, and I now have the satisfaction of seeing my patient engaging in all her household duties. *Not a vestige of the disease is to be seen. The patient is enjoying perfect health, is active and lively.*

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Dr. G. Dujardin Beaumets, of the Hospital de la Pitié, Paris, concludes, after an elaborate study of the action of phosphorus in locomotor ataxia, that—1. Phosphorus appears to have a favorable influence in progressive locomotor ataxia. 2. Phosphorus acts as an excitant and as a tonic to the nervous system. It returns to the nervous tissue an indispensable element. 3. The administration of phosphorus should be commenced in small doses, one milligramme (about the 1-60 of a grain,) and increased gradually. The administration should cease when digestive troubles supervene.—*Bulletin General de Therapeutique*, Jan. 15th, Feb. 25th, March 15th, 1862.

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MR. WILLIAM R. WARNER, Pharmaceutical Chemist, Philadelphia.

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Yours, very respectfully,

JOHN M. MAISCH, U. S. Army Laboratory.

(Now Professor in Philadelphia College of Pharmacy &

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VINUM GOSSYPI RADIX RECENTIS. (Warner & Co.)

(Wine of the Fresh Cotton Root Bark.)

We offer this as the most reliable preparation of Cotton Root Bark, so celebrated as an Emmenagogue and Parturient; also valuable as a remedy in Chlorosis and Anemia. It acts with much more certainty and efficacy than Ergot, without the disagreeable effects attending the administration of the latter, as it produces no pain or gastric disturbances and no other effect than the promotion of the menses. Being made from the recent root, gathered in the proper season guarantees uniform results, while it affords a preparation pleasing to take.

Dose.—One to two tablespoonful three times a day.—In Pints, \$2.50.

ELIXIR TARAXACUM COMP.

This is a new and valuable combination of the medicinal properties of the Dandelion, Wild Cherry and Gentian, associated with Aromatics. It is a very agreeable and efficient remedy. Aside from its medicinal virtues it is useful as a vehicle and for masking the bitter taste of Quinia. A tablespoonful three or four times a day is the usual dose.—Per Gallon, \$4.00. Per Dozen, Pints, \$7.00.

ELIXIR CINCHONIA CALISAYA.

(Yellow Peruvian Bark.)

This Tonic Elixir, so agreeable to the taste, comprises all the active principles of the Calisaya Bark, in their native combination, and derives additional energy from its association with several of the most grateful Aromatic Tonics.

It is admirably adapted to convalescents as an effective invigorator and restorative, rapidly improving the appetite and impaired digestion, and contributing much to the cheerfulness and buoyancy of mind.—Per Gallon, \$6.00. Per Dozen, in Pints, \$9.00.

ELIXIR CALISAYA, Iron and Strychnia.

Possessing the tonic and antiperiodic properties of its valuable ingredients above named, presented in the form of a delightful aromatic cordial. Each dessert-spoonful contains 1-20 grain Strychnia and 1 grain Pyrophosphate of Iron.—Per Gallon, \$7.00. Per Dozen in Pints, \$12.00.

ELIXIR PYROPHOSPHATE OF IRON.

This Chalybeate Elixir has the flavor of orange flowers with a beautiful transparency and delicate aroma. It is administered in Chlorosis, Debility, and in all cases where Iron may be required. It is the most pleasant and readily assimilable of the ferruginous preparations. Each teaspoonful contains 1 grain of the Iron-salt. Per Gallon, \$6.00. Per Dozen, in Pints, \$9.00.

ELIXIR VALERIANATE OF AMMONIA.

This Elixir combines the sedative properties of Valerian and Aromatic Ammonia without their repulsive flavor and odor. Its therapeutic properties are valuable, in such cases as would require these agents, such as Nervousness, Headache, Spasms, Hysteria, Sleeplessness, &c. Usually given in doses of one dessert-spoonful. Per Gallon, \$6.50. Per Dozen, in Pints, \$11.00.

WINE OF PEPsin.

(Elixir of Pepsin.)

A solution of Pepsin, in Malaga Wine with Orange Syrup. Each tablespoonful represents 8 grains Pepsin, to be given before each meal in cases of impaired digestion. Per Gallon, \$11.50. Per Dozen, in Pints, \$18.00.

BITTER WINE OF IRON.

An agreeable and efficient Tonic, combining the Soluble Citrate of Iron and precipitated Extract of Peruvian Bark with Malaga Wine, Oranges and Sugar. Two tea-spoonful after each meal is the usual dose.—Per Gallon, \$6.00. Per Dozen, in Pints, \$10.00.

SYRUP OF HYPOPHOSPHITES, of Iron, Lime, Soda and Potassa.

(Dr. Churchill's Remedy for Consumption, &c.)

Each teaspoonful contains 2 grains of the Lime, $1\frac{1}{2}$ grains of Soda, 1 grain Potassa, and $\frac{3}{4}$ grain of the Iron-salt.—Per Gallon, \$6.50. Per Dozen, in Pints, \$9.00.

SYRUP PHOS: Quinine, Iron and Strychnia.

A powerful general tonic, particularly serviceable in cases of Debility and Nervous Prostration, Indigestion, Chlorosis, &c. Given in doses of one dessert-spoonful, which contains 1 grain Phos. Quinine, 2 grains Phos. Iron and 1-20 grain Strychnia.—Per Gallon, \$10.00. Per Doz., in Pints, \$14.

LOZENGES OF PEPsINE AND IRON.

Comment is unnecessary upon the value of this combination, and we introduce it with the conviction that it will be held as a valuable addition to the list of new remedies. Each Lozenge contains 3 grains Pepsine, $\frac{1}{2}$ grain Pyrophosphate of Iron, combined with Sugar, Vanilla and Glycer.—\$4.00 per Dozen Boxes.

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TRADE MARK.

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MANUFACTURERS OF STANDARD OFFICIAL PREPARATIONS OF U. S. PHARMACOPEIA.

MANUFACTURERS OF ALL COMPOUNDS AND NEW REMEDIES.

PILLS.				PILLS.			
	Price	per			Price	per	
	per	100	per		per	100	per
			500				500
PIL: Aloes	\$	40	\$1 75	PIL: Iodoform, et Ferri.....	3 25	\$16 00	
" Comp. U. S. P.		40	1 75	" Iodoform, 1 gr	3 00	14 75	
" et Assafet. U. S. P.		40	1 75	" Ipecac et Opil, 3½ grs.....	80	2 25	
" et Ferri.....		40	1 75	" Leptand. Comp.....	1 00	4 75	
" et Mastich.....		50	2 25	" Lupulin, 3 grs.....	40	1 75	
Ammon. Bromide, 1 gr		75	3 50	" Opil, U. S. P., 1 gr.....	75	3 50	
Anti-bilious, (Vegetable).....		70	3 25	" et Camphor.....	1 00	4 75	
Aperient		85	4 00	" et Camph. et Tannin.....	1 00	4 75	
Assafetida, U. S. P., 2 gr		40	1 75	" et Plumbi Acet.....	75	3 50	
" Comp.....		40	1 75	" Phosphorus Comp:			
" et Rhei.....		75	3 50	{ Phosphorus, 1-160 gr. }			
Bismuth, Subcarb., 3 grs.....		75	3 50	{ Ext. Nux Vom., ¼ gr. }			
Calomel, 1, 2, 3, and 5 grs.....		40	1 75	" Potass. Iodid, 2 grs.....	85	4 00	
Cathart. Comp., U. S. P.		70	3 25	" Quinine Sulph., 3 grs.....	2 75	13 50	
Cathartic Comp. Imp:				" " 3 grs.....	4 00	19 75	
Ext. Colocynth Comp.				" Comp.....	1 75	8 50	
" Jalap.....				" et Ext. Belladon.....	1 75	8 50	
Podophyllin.....				" et Ferri.....	1 75	8 50	
Leptandrin.....		75	3 50	" et Hydrag.....	1 75	8 50	
Ext. Hyoscyamus.....				" et Ferri et Strych.....	1 75	8 50	
" Gentian.....				" Valer., 2 grs.....	3 50	17 25	
Oil: Henth Flp.....				" Rhei, Comp., U. S. P.....	75	3 50	
PIL: Camphor et Ext. Hyoscyamus:				" Rhei et Hydrag.....	80	3 75	
{ Camphor, 1 gr.....				" Rheumatic.....	90	4 25	
{ Ext. Hyoscyamus Eng. 1 gr. }		50	2 25	" Zinci Valerian, 1 gr.....	1 00	4 75	
Chapman's Dinner Pills.....		60	2 75				
" Ceril Oxalat, 1 gr.....		1 00	4 75				
" Chinoidin. Comp.....		1 00	4 75				
" Cinchon. Sulph., 1½ gr.....		75	3 50				
" Coloc. Comp., 3 grs.....		80	3 75				
" Colocynth et Hyd. et Ipecac.....		75	3 50				
" Copahib. U. S. P., 3 grs.....		50	2 25				
" et Ext. Cubebae.....		80	3 75				
PIL: Cook's.....							
{ Pulv. Aloes Soc: 1 gr. }							
" Rhei, 1 gr.....		50	2 25				
" Calomel, 1½ gr.....							
" Pulv. Sapo. Hesp ½ gr.....							
" Diuretic.....		50	2 25				
" Dupuytren.....		50	2 25				
PIL: Emmenagogue.....							
Ergotine.....							
Ext. Helleboro, Nig. 1 gr.....							
Pulv. Soc. Aloes, 1 gr.....		1 40	6 75				
" Ferri Sul, 1 gr.....							
Oil Sabinas, ¼ gr.....							
" Fel. Bovinum.....		50	2 25				
" Ferri, (Quevenne's) 1 gr.....		50	2 50				
" Carb. (Valet's) 3 grs.....		40	1 75				
" Comp. U. S. P.....		65	3 00				
" Iodid, 1 gr.....		50	2 25				
" Lactal, 1 gr.....		40	1 75				
" Pyrophospho, 1 gr.....		1 00	4 75				
" Valer., 1 gr.....		75	3 50				
" et Quass. et Nuc. Vom.....		75	3 50				
" et Strychnas.....		60	2 75				
" Gonorrhoea.....		80	3 75				
" Hepatica.....		40	1 75				
" Hooper, (Female Pills), 2½ gr.....		40	1 75				
" Hydragyri, U. S. P., 3 gr.....		40	1 75				
" Iod. et Opil.....		75	3 50				

GRANULES.

Accurate methods and the greatest care are employed in dividing these minute doses to render them uniform and accurate.

Acid. Arsenious, 1-20, 1-50 & 1-50 gr	\$	40	\$1 75
Aconita, 1-50 gr.....		75	3 50
Atropia, 1-50 gr.....		75	3 50
Corrosive Sublimate, 1-12, 1-20, 1-40 gr		40	1 75
Digitalin, 1-50 gr.....		75	3 50
Elasterium, (Clutterbuck's) 1-10 gr.....		95	4 50
Extract Cannabis Indica, ¼ gr.....		60	2 75
" Hyoscyamus, (Eng.) ½ gr.....		40	1 75
" Nux Vomica, ¼ gr.....		40	1 75
Hydragrin, ¼ gr.....		95	4 50
Mercury Iodide, ¼ gr.....		40	1 75
" Red, 1-16 gr.....		40	1 75
Morphia Acet., 1 gr.....		70	3 25
" Sulph., 1-10 gr.....		60	2 75
" " ¼ gr.....		70	3 25
" " ½ gr.....		80	3 75
" " ¾ gr.....		1 00	4 75
" Valer.....		1 00	4 75
Podophyllin, ¼ gr.....		50	2 25
Podophyllin Comp.....			
{ Podophyllin, ¼ gr.....			
" Ext. Hyoscyam, ¼ gr.....		75	3 50
" Nux Vom, 1-16 gr.....			
Quinta Valerianate, ¼ gr.....		2 00	9 75
Silver Nitrate, ¼ gr.....		75	3 50
Strychnia, 1-20, 30, 40, 50 gr.....		40	1 75

Dispensed by Druggists throughout the Country.

WARNER'S

PIL: IODOFORM ET FERRI.

A Powerful General Tonic, and Alterative, Valuable as a Remedy in

SCROFULA, ANEMIA, NEURALGIA, CHLOROSIS, RHEUMATISM, &c.

We make special mention of these pills of our manufacture, as the medical journals throughout the country contain contributions from reliable authors who have made wonderful cures after having used, without success, all other known remedies.

Each label bears the formula and doses.

We give below a brief extract from a report of the Lehigh County Medical Society, as published in the transactions of the Medical Society of Pennsylvania, June, 1868.

"Internally, I gave quinine and iron and a good nourishing diet. Still I found great trouble in keeping up healthy granulations, they would become sluggish. I tried a number of alteratives, as iodide of potassium and lime. Still the case progressed very slowly until my attention was attracted to an article in the *Medical and Surgical Reporter*, 'On Iodoform and Iron.' I at once concluded to give this remedy a fair trial. I discontinued all other constitutional treatment, and gave three pills three times a day, *manufactured by W. R. Warner & Co., of Philadelphia*. I soon had the satisfaction of seeing a rapid improvement. The pain at once left her limb, with which she had suffered continually; the granulations became more healthy and more abundant, and I now have the satisfaction of seeing my patient engaging in all her household duties. *Not a vestige of the disease is to be seen. The patient is enjoying perfect health, is active and lively.*

"Since, I have treated two other cases, one of three and one of four years' standing, with the same good results. I feel convinced of the efficacy of the remedy.

P. L. REICHARD,
Chairman Sanitary Committee.

32 We furnish with orders, or when requested, a treatise in pamphlet form, detailing cures effected, and cases to which it is applicable. Price of Pills per hundred, \$3.25. Liberal Discount for quantities.

PIL: PHOSPHORUS COMP:

Containing Phosphorus, One-hundredth Grain. Ext. Nux. Vomica, One-fourth Grain.

\$2.00 per Hundred. Liberal discount for quantities.

Phosphorus is an important constituent of the animal economy, particularly of the brain and nervous system, and is regarded as a valuable remedy for diseases common to them,—as in cases of Lapse of Memory, Softening of the Brain, Loss of Nerve Power, Phthisis, Paralysis and Impotency. The pillular form has been deemed the most desirable for the administration of Phosphorus. It is in a perfect state of Subdivision, as it is incorporated with Glycerine, &c., in solution.

Dr. G. DeJardin Beaumetz, of the Hospital de la Peste, Paris, concludes, after an elaborate study of the action of phosphorus in locomotor ataxia, that—1. Phosphorus appears to have a favorable influence in progressive locomotor ataxia. 2. Phosphorus acts as an excitant and as a tonic to the nervous system. It returns to the nervous tissue an indispensable element. 3. The administration of phosphorus should be commenced in small doses, one milligramme (about the 1-60 of a grain,) and increased gradually. The administration should cease when digestive troubles supervene.—*Bulletin General de Therapeutique*, Jan. 15th, Feb. 29th, March 18th, 1868.

Private Formulas and Special Orders for Pills.

We are prepared to execute special orders or private receipts for any quantities not less than 3,000, it being impracticable to coat a less number. With a view to proper manipulation it is desirable to know the composition, we will therefore supply the ingredients, and give the lowest estimates therefor. To fill your orders it will require but a week or a few days, except in rare instances. The larger the quantity the more elegant the finish.

MR. WILLIAM R. WARNER, *Pharmaceutical Chemist, Philadelphia.*

MY DEAR SIR:—You have submitted for my inspection, various samples of your Sugar-Coated Pills. I have examined them carefully and can pronounce them both perfect and elegant. I speak from my personal knowledge of your character and ability, and I regard the length of your practical experience in manufacturing them as a specialty, as the surest guarantee of their excellence.

Yours, very respectfully,

JOHN M. MAISCH, *U. S. Army Laboratory*
(Now Professor in Philadelphia College of Pharmacy.)

Jan. 20, 1869.

Please Specify our make (Wm. R. Warner & Co.,) when it suits your convenience to order through other houses.

WM. R. WARNER & CO'S, NEW REMEDIES AND PHARMACEUTICAL PRODUCTS.

These preparations are offered to supply what seems a growing necessity. They constitute most efficient remedies, made agreeable to the taste with Wine, Sugar and Aromatics, and meet with a ready endorsement by the most eminent of the profession.

VINUM (Wine of the Fruit) Cotton Root Bark, &c. &c. (Warner & Co.)

We offer this as the most reliable preparation of Cotton Root Bark, so celebrated as an Emmenagogue and Parturient; also valuable as a remedy in Chlorosis and Anemia. It acts with much more certainty and efficacy than Ergot, without the disagreeable effects attending the administration of the latter, as it produces no pain or gastric disturbances and no other effect than the promotion of the menses. Being made from the recent root, gathered in the proper season guarantees uniform results, while it affords a preparation pleasing to take.

Dose.—One to two tablespoonful three times a day.—In Pints, \$2.50.

This is a new and valuable combination of the medicinal properties of the Dandelion, Wild Cherry and Gentian, associated with Aromatics. It is a very agreeable and efficient remedy. Aside from its medicinal virtues it is useful as a vehicle and for masking the bitter taste of Quinia. A tablespoonful three or four times a day is the usual dose.—Per Gallon, \$4.00. Per Dozen, Pints, \$7.00.

ELIX (Elixir) Yellow Root Bark, &c. &c. (Warner & Co.)

This Tonic Elixir, so agreeable to the taste, comprises all the active principles of the Gallsaya Bark, in their native combination, and derives additional energy from its association with several of the most grateful Aromatic Tonics.

It is admirably adapted to convalescents as an effective invigorator and restorative, rapidly improving the appetite and impaired digestion, and contributing much to the cheerfulness and buoyancy of mind.—Per Gallon, \$5.00. Per Dozen, in Pints, \$9.00.

Possessing the tonic and antiperiodic properties of its valuable ingredients above named, presented in the form of a delightful aromatic cordial. Each dessert-spoonful contains 1-20 grain Strychnia and 1 grain Pyrophosphate of Iron.—Per Gallon, \$7.00. Per Dozen in Pints, \$12.00.

This Chalybeate Elixir has the flavor of orange-squirt with a beautiful transparency and delicate aroma. It is administered in Chlorosis, Debility, and in all cases where Iron may be required. It is the most pleasant and readily assimilable of the ferruginous preparations. Each teaspoonful contains 1 grain of the Iron-salt. Per Gallon, \$5.00. Per Dozen, in Pints, \$9.00.

This Elixir combines the sedative properties of Valerian and Aromatic Ammonia without their repulsive flavor and odor. Its therapeutic properties are valuable in such cases as would require these agents, such as Nervousness, Headache, Spasms, Hysteria, Sleeplessness, &c. Usually given in doses of one dessert-spoonful. Per Gallon, \$6.50. Per Dozen, in Pints, \$11.00.

W (Wine) of Pepsin.

A solution of Pepsin, in Malaga Wine with Orange Syrup. Each tablespoonful represents 8 grains Pepsin, to be given before each meal in cases of impaired digestion. Per Gallon, \$11.00. Per Dozen, in Pints, \$18.00.

An agreeable and efficient Tonic, combining the Soluble Citrate of Iron and precipitated Extract of Peruvian Bark with Malaga Wine, Oranges and Sugar. Two tea-spoonful after each meal is the usual dose.—Per Gallon, \$6.00. Per Dozen, in Pints, \$10.00.

SYRUP OF (Syrup) Chalk, &c. &c. (Warner & Co.)

Each teaspoonful contains 2 grains of the Lime, 1½ grains of Soda, 1 grain Potassa, and ¾ grain of the Iron-salt.—Per Gallon, \$6.50. Per Dozen, in Pints, \$9.00.

A powerful general tonic, particularly serviceable in cases of Debility and Nervous Prostration, Indigestion, Chlorosis, &c. Given in doses of one dessert-spoonful, which contains 1 grain Phos. Quinia, 2 grains Phos. Iron and 1-20 grain Strychnia.—Per Gallon, \$10.00. Per Doz., in Pints, \$14.

Comment is unnecessary upon the value of this combination, and we introduce it with the conviction that it will be held as a valuable addition to the list of new remedies. Each Lozenge contains 3 grains Pepsine, ¼ grain Pyrophosphate of Iron, combined with Sugar, Vanilla and Ginger.—\$4.00 per Dozen Boxes.

PHYSICIAN'S SUPPLIES A SPECIALTY.



TRADE MARK.

CAUTION.

Physicians and Druggists in ordering Pills of Iodoform and Iron, will please observe that they are of our manufacture, protected by Trade Mark. We deem it necessary to call your attention to this, as it is said there are pills in the market in which not half the Iodoform is represented; further, you will have noticed that the many remarkable cures detailed in the Medical Journals were effected by our Pills.

The peculiar mode of preparation and combination, from absolutely pure material, has much to do with determining their efficacy.

In ordering it would be well to specify "WARNER & Co.," that you may obtain what you desire.

WILLIAM R. WARNER & CO.,

Wholesale Druggists,

MANUFACTURERS OF

OFFICIAL AND OTHER SUGAR COATED PILLS,

PURE IODOFORM, ELIXIRS AND FLUID EXTRACTS.

No. 154 NORTH THIRD STREET,

PHILADELPHIA.

Price Lists furnished on application.

Liberal Discount for quantities.

Notice to Physicians.

The solubility of Official and other SUGAR COATED PILLS as made by us, is an indispensable quality, and a matter of so much importance as to command your special attention. An experience of thirteen years, with careful attention and study, has enabled us to achieve a perfection otherwise unattainable.

We claim this art of Sugar Coating, avoiding the necessity of drying so hard as to render them insoluble and inert to make them permanent.

Being extensively engaged in the Wholesale Drug business, and in the manufacture of Standard Official Preparations, and New Remedies, in our own Laboratory, affords us facilities for supplying Physician's orders with all articles of the purest quality at the lowest prices.

A discount of 25 per cent. will be made to Physicians on all orders for Pills amounting to \$10.00 net. Less quantities will be sent by mail or express pre-paid on receipt of catalogue prices. Please specify our make (W. & Co.) when it suits your convenience to order elsewhere. Half freight paid on shipments of Drugs to distant points.

Sold by

ARTHUR PETER & CO., Louisville, Ky.

MANUFACTURERS OF U. S. PHARMACOPEIA.

PILLS SENT BY MAIL ON RECEIPT OF LIST PRICES.

RELIABLE, SOLUBLE, PERMANENT SUGAR-COATED PILLS AND GRANULES,

(PERFECTNESS IN QUALITY AND FINISH)

MANUFACTURED BY

WILLIAM R. WARNER & CO.

Wholesale Druggists and Chemists,

No. 154 NORTH THIRD STREET,

PHILADELPHIA.

MANUFACTURERS OF ALL COMPOUNDS AND NEW REMEDIES.

PILLS.	Price	per 100	per 500
PIL: Aloes	\$	40	\$1 75
" " Comp. U. S. P.		40	1 75
" " et Assafœt., U. S. P.		40	1 75
" " et Ferri.....		40	1 75
" " et Mastich.....		50	2 25
" Ammon., Bromide, 1 gr.....		75	3 50
" Anti-bilious, (Vegetable).....		70	3 25
" Aperient.....		85	4 00
" Assafœtida, U. S. P., 2 gr.....		40	1 75
" " Comp.....		40	1 75
" " et Rhei.....		75	3 50
" Bismuth, Subnit., 3 grs.....		75	3 50
" " Subcarb., 3 grs.....		75	3 50
" Calomel, 1, 2, 3, and 5 grs.....		40	1 75
" Cathart. Comp., U. S. P.....		70	3 25
" Cathartic Comp. Imp:.....			
" Ext. Colocynth Comp.			
" " Jalap.....			
" Podophyllin.....			
" Lepandrin.....		75	3 50
" Ext. Hyoscyamus.....			
" " Gentian.....			
" Ol: Henth Pip.....			
PIL: Camphor et Ext: Hyoscyamus.....			
" Camphor, 1 gr.....		50	2 25
" Ex: Hyoscyamus Eng. 1 gr.....			
" Chapman's Dinner Pills.....		80	3 75
" Ceril Oxalat, 1 gr.....		100	4 75
" Chinoidin, Comp.....		100	4 75
" Cinchon Sulph., 1 1/2 gr.....		75	3 50
" Coloc. Comp., 3 gr.....		80	3 75
" Colocynth et Hyd. et Ipecac.....		75	3 50
" Copaiba, U. S. P., 3 grs.....		50	2 25
" " et Ext. Cubebe.....		80	3 75
PIL: Cook's.....			
" Pulv. Aloes Soc: 1 gr.....			
" " Rhei, 1 gr.....			
" Calomel, 1/2 gr.....		50	2 25
" Pulv. Sapo. Hlap 1/2 gr.....			
" Diuretic.....		50	2 25
" Dupuytren.....		50	2 25
PIL: Emmenagogue.....			
" Ergotin.....			
" Ext. Heilshoro, Nig. 1 gr.....			
" Pulv. Soc. Aloes, 1 gr.....		1 40	6 75
" " Ferri Sul. 1 gr.....			
" Ol. Sabina, 1/2 gr.....			
" Pol. Bovinum.....		50	2 25
" Ferri. (Quevonne's) 1 gr.....		50	2 25
" Carb. (Valett's) 5 grs.....		40	1 75
" Comp. U. S. P.....		40	1 75
" Iodid, 1 gr.....		45	3 00
" Lactat, 1 gr.....		50	2 25
" Pyrophosph., 1 gr.....		40	1 75
" " Valer., 1 gr.....		1 00	4 75
" " et Quass. et Nuc. Vom.....		75	3 50
" " et Strychnina.....		75	3 50
" Gonorrhœa.....		80	2 75
" Hepatica.....		80	3 75
" Hooper, (Female Pills), 2 1/2 gr.....		40	1 75
" Hydrargyri, U. S. P., 3 grs.....		40	1 75
" " Iod. et Opil.....		75	3 50

PILLS.	Price	per 100	per 500
PIL: Iodoform, et Ferri.....	3 25	\$16 00	
" Iodoform, 1 gr.....	3 00	14 75	
" Ipecac et Opil, 3 1/2 grs.....	50	2 25	
" Lepand, Comp.....	1 00	4 75	
" Lupulin, 3 grs.....	40	1 75	
" Opil, U. S. P., 1 gr.....	75	3 50	
" " et Camphor.....	1 00	4 75	
" " et Camph. et Tannin.....	1 00	4 75	
" " et Plumbi Acet.....	75	3 50	
" Phosphorus Comp:.....			
" { Phosphorus, 1-100 gr. }			
" { Ext. Nux Vom., 1/4 gr. }			
" Potass. Iodid, 2 grs.....	35	4 00	
" Quinia Sulph., 2 grs.....	2 75	13 50	
" " 3 grs.....	4 00	19 75	
" " Comp.....	1 75	8 50	
" " et Ext. Belladon.....	1 75	8 50	
" " et Ferri.....	1 75	8 50	
" " et Hydrarg.....	1 75	8 50	
" " et Ferri et Strych.....	1 75	8 50	
" " Valer., 2 grs.....	3 50	17 25	
" Rhei, Comp., U. S. P.....	75	3 50	
" Rhei et Hydrarg.....	80	3 75	
" Rheumatic.....	90	4 25	
" Zinc Valerian, 1 gr.....	1 00	4 75	

GRANULES.

Accurate methods and the greatest care are employed in dividing these minute doses to render them uniform and accurate.

Acid, Arsenious, 1-20, 1-30 & 1-50 gr	\$	40	\$1 75
Aconita, 1-60 gr.....		75	3 50
Atropa, 1-60 gr.....		75	3 50
Corrosive Sublimate, 1-12, 1-20, 1-40 gr.....		40	1 75
Digitalis, 1-60 gr.....		75	3 50
Elaterium, (Clutterbuck's) 1-10 gr.....		95	4 50
Extract Cannabis Indica, 1/4 gr.....		60	2 75
" Hyoscyamus, (Eng.) 1/2 gr.....		40	1 75
" Nux Vomica, 1/2 gr.....		40	1 75
Hydrastin, 1/2 gr.....		95	4 50
Mercury Iodide, 1/4 gr.....		40	1 75
" Red, 1-16 gr.....		40	1 75
Morphia Acet., 1 gr.....		70	3 25
" Sulph., 1-10 gr.....		60	2 75
" " 1/2 gr.....		70	3 25
" " 1/4 gr.....		80	3 75
" " 1/2 gr.....		1 00	4 75
" " Valer.....		1 00	4 75
Podophyllin, 1/2 gr.....		50	2 25
Podophyllin Comp.....			
" { Podophyllin, 1/2 gr. }			
" { Ext. Hyoscyam, 1/2 gr. }		75	3 50
" { " Nux Vom, 1-16 gr. }			
Quinia Valerianate, 1/2 gr.....	2 00	9 75	
Silver Nitrate, 1/4 gr.....		75	3 50
Strychnia, 1-20, 30, 40, 50 gr.....		40	1 75

Dispensed by Druggists throughout the Country.

37 Pills Sent by Mail on receipt of Catalogue Price. 75

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P. L. REICHARD,
Chairman Sanitary Committee.

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PIL: PHOSPHORUS COMP:

Containing Phosphorus, One-hundredth Grain. Ext. Nux. Vomica, One-fourth Grain.

\$2.00 per Hundred. Liberal discount for quantities.

Phosphorus is an important constituent of the animal economy, particularly of the brain and nervous system, and is regarded as a valuable remedy for diseases common to them,—as in cases of Lapse of Memory, Softening of the Brain, Loss of Nerve Power, Phthisis, Paralysis and Impotency. The pilular form has been deemed the most desirable for the administration of Phosphorus. It is in a perfect state of Subdivision, as it is incorporated with Glycerine, &c., in solution.

Dr. G. Dujardin Beaumets, of the Hospital de la Pitié, Paris, concludes, after an elaborate study of the action of phosphorus in locomotor ataxia, that—1. Phosphorus appears to have a favorable influence in progressive locomotor ataxia. 2. Phosphorus acts as an excitant and as a tonic to the nervous system. It returns to the nervous tissue an indispensable element. 3. The administration of phosphorus should be commenced in small doses, one milligramme (about the 1-60 of a grain,) and increased gradually. The administration should cease when digestive troubles supervene.—*Bulletin General de Thérapeutique*, Jan. 15th, Feb. 29th, March 15th, 1868.

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MR. WILLIAM R. WARNER, Pharmaceutical Chemist, Philadelphia.

MY DEAR SIR—You have submitted for my inspection, various samples of your Sugar-Coated Pills. I have examined them carefully and can pronounce them both perfect and elegant. I speak from my personal knowledge of your character and ability, and I regard the length of your practical experience in manufacturing them as a speciality, as the surest guarantee of their excellence.

Yours, very respectfully,

JOHN M. MATSCH, U. S. Army Laboratory
(Now Professor in Philadelphia College of Pharmacy)

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VINUM GOSYPI RADIX RECENTIS. (Warner & Co.)

(Wine of the Fresh Cotton Root Bark.)

We offer this as the most reliable preparation of Cotton Root Bark, so celebrated as an Emmenagogue and Parturient; also valuable as a remedy in Chlorosis and Anemia. It acts with much more certainty and efficacy than Ergot, without the disagreeable effects attending the administration of the latter, as it produces no pain or gastric disturbances and no other effect than the promotion of the menses. Being made from the recent root, gathered in the proper season, guarantees uniform results, while it affords a preparation pleasing to take.

Dose.—One to two tablespoonfuls three times a day.—In Pints, \$2.50.

ELIXIR TARAXACUM COMP:

This is a new and valuable combination of the medicinal properties of the Dandelion, Wild Cherry and Gentian, associated with Aromatics. It is a very agreeable and efficient remedy. Aside from its medicinal virtues it is useful as a vehicle and for masking the bitter taste of Quinia. A tablespoonful three or four times a day is the usual dose.—Per Gallon, \$4.00. Per Dozen, Pints, \$7.00.

ELIXIR CINCHONA CALIBAYA,

(Yellow Peruvian Bark.)

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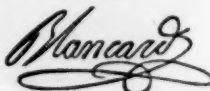
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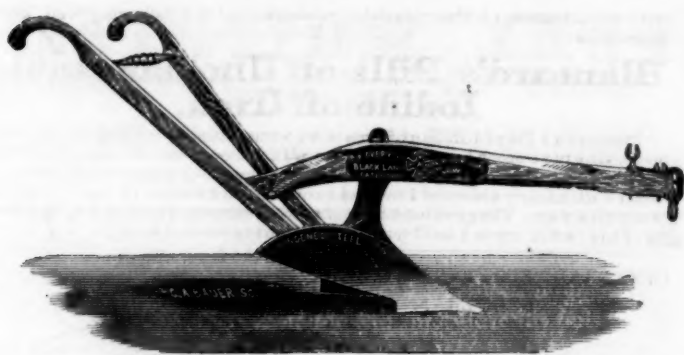
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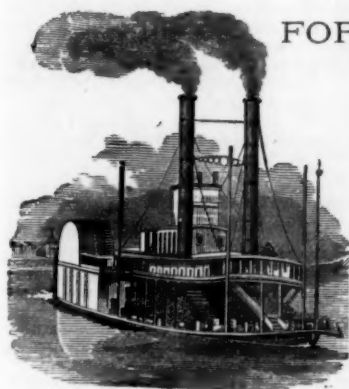
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"Nothing can exceed the efficiency and convenience of this Instrument. It possesses the great advantages of supplying both the inducing and induced currents, and enabling the physician to regulate the interruptions so as to give the shocks very slowly, a matter of great importance in the treatment of paralytic disorders."

Prof. DOREMUS has given the following opinion relative thereto:

"College of the City of New York, Nov. 7, 1870.

Dr. DRESCHER.—Dear Sir: I have carefully examined your new Electro-Magnetic Machine, with its valuable and ingenious improvements. I consider the Instrument the most complete, the most varied in its applications, and the most convenient I have ever seen. Wishing you the success your long experience in Galvanism and its practical applications justly deserves,

I remain, Yours truly, R. OGDEN DOREMUS."

Dr. DRESCHER has recently added to this Machine several very valuable improvements, Patented July 4th, and July 18th, 1871, and can now confidently pronounce his Instrument to be

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IV. THE PATENTED ELECTRODE CORD-SPOOLS

applied to these Instruments, on which the cords may be readily wound after application, are the delight of every Electrician.

NOTE.—The Co-Partnership heretofore constituting the Firm known as "THE GALVANO-FARADIC MANUFACTURING Co." having been dissolved on the 1st day of January, 1871, by mutual consent, **Dr. LUIS DRESCHER** retiring from his former association, has established himself under the Firm name of

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Used with great success against nervous and convulsive coughs, hooping cough, acute bronchitis, chronic catarrh, influenza, &c.

Wakefulness, cough and other sufferings in consumption, are greatly relieved by the soothing and expectorant properties of this paste.

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This Elixir contains Iodine, Pyrophosphate of Iron, the active principles of anti-scorbutic and aromatic plants, and acts as a tonic, stimulant, emmenagogue, and a powerful regenerator of the blood. It is an invaluable remedy for all constitutional disorders due to the impurity and poverty of the blood. One of the advantages of this new preparation consists in combining the virtues of Iodine and Iron without the inky taste of Iodide of Iron.

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Each ounce of this elegant preparation contains the soluble constituents of two ounces of fresh beef, combined with the stimulating properties of pure Sherry Wine.

Fougera's Nutritive Wine, Ferrated.

This preparation is the same as the preceding, with the addition of eight grains of ammonio-citrate of iron to each ounce.

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Each ounce represents fully thirty grains of the best peruvian bark and the soluble constituents of two ounces of fresh beef. This pleasant cordial is especially useful in certain forms of dyspepsia and debility, when a tonic and slight stimulant is indicated.

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Each ounce of this syrup contains sixteen grains of pyrophosphate and ammonio-citrate of iron, and the soluble constituents of two ounces of fresh beef. Dose, for adults, a dessert spoonful; for children, a teaspoonful. It is especially adapted for ladies and children.

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For invalids or convalescents. It is readily assimilated and borne by the stomach. It combines with the soluble constituents of beef, all the elements which experience has proved valuable as nourishment.

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Boudault's Pepsine is considered the most reliable; it is the only one which is used in the hospitals of Paris, recommended by Professors Wood & Bache, (see American Dispensatory, 11th edition, pages 1479-1480,) and approved by the committee appointed to revise the New French Codex, (1866.) Boudault's Pepsine is sold in powder, (in 1, 4, 8, and 16 oz. bottles.) The dose is 15 grains two or three times a day, at meal times.

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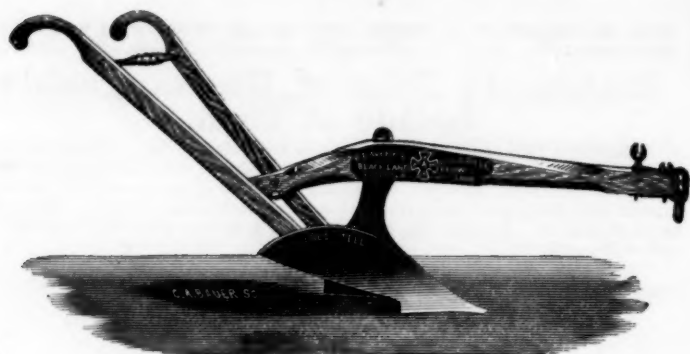
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This extract is a *pure extract of beef*, unsurpassed in quality, free from fat and gelatine, each pound of which contains the soluble nutritive constituents of 34 to 36 pounds of the finest beef, exclusive of bones and fat, corresponding to about 45 pounds of good butcher's meat. As a medicinal agent it will be found of great value to the sick, invalid and persons and children of weak constitutions.

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CODMAN & SHURTLEFF'S APPARATUSES FOR ATOMIZATION OF LIQUIDS FOR INHALATION LOCAL ANÆSTHESIA, &c.

By the Atomizer any medicated liquid may be converted into the finest spray. In this state it may be inhaled into the smallest air-cells, thus opening a new era in the treatment of all diseases of the throat and lungs.

The Complete Steam Atomizer for Inhalation, &c.

(See Fig. 15.)

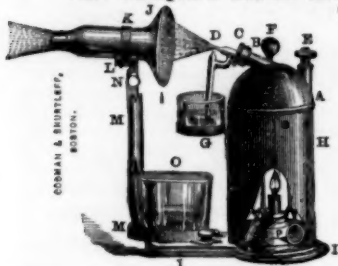


Fig. 15. Pat. Mar. 24, 1868 and Mar. 16, 1869.

The waste-cup, medicament-cup and lamp are held in their places in such a manner that they can not fall out when the apparatus is carried or used over a bed or otherwise. All its joints are hard soldered. It can not be injured by exhaustion of water, or any attainable pressure of steam. It does not throw sprits of hot water to frighten or scald the patient. Is compact and portable; occupies space of one sixth cubic foot only; can be carried from place to place without removing the atomizing tubes or the water; can be unpacked and repacked without loss of time. Will render the best service for many years, and is cheap in the best sense of the word.

PRICE.....\$6.00
Brass parts nickel-plated, additional.....2.50
Neatly made, strong, black-walnut box, with convenient handle, additional, 2.50

Shurtleff's Atomizing Apparatus. (See Fig. 5.)



Fig. 5. Patented March 24, 1868.

For Inhalation, and, with suitable tubes, for Local Anæsthesia, and for making direct local applications of atomized liquids for a great variety of purposes. (See our pamphlet.)

The most desirable hand apparatus. Rubber warranted of very best quality. Valves imperishable—every one carefully fitted to its seat, and work perfectly in all positions. The Bubs are adapted to all the Tubes made by us for Local Anæsthesia in Surgical Operations, Teeth Extraction, and for Inhalation. PRICE.....\$4.00

Each of the above Apparatuses is supplied with two carefully-made annealed glass Atomizing Tubes, and Apparatus is tested with steam at very high pressure. Each apparatus is carefully packed for transportation, and warranted perfect.

Also, accompanied with directions for use. Every Steam Atomizer is tested with steam at very high pressure. Each apparatus is carefully packed for transportation, and warranted perfect.

HAND BALL APPARATUS (Fig. 5, without shield), with two glass Tubes.....\$3.50
THE BOSTON ATOMIZER, with two glass Atomizing Tubes.....2.50
THE TREMONT ATOMIZER, with two glass Atomizing Tubes.....2.00
THE UNIVERSAL ATOMIZER, with metal Tube.....1.50
GLASS TUBES to fit any of our apparatus, warranted perfect......25
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No 33—2m

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The Boylston Medical Committee, appointed by the President and Fellows of Harvard University, announce that the following are the questions proposed for 1873:

1. ELECTRO-THERAPEUTICS.
2. THE VALUE OF CHEMISTRY TO THE MEDICAL PRACTITIONER.

Dissertations on the above subjects must be transmitted, post-paid, to John Jeffries, M. D., Boston, *on or before the first Wednesday in April, 1873.*

The author of a dissertation considered worthy of a prize, on either of the subjects proposed for 1873, will be entitled to a premium of One Hundred and Fifty Dollars.

The following are the questions proposed for 1874:

1. THE BEST METHODS OF PREVENTING THE DEVELOPMENT AND SPREAD OF SMALL-POX.
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For a more detailed announcement see Boston Medical and Surgical Journal of June 13, 1872 (David Clapp & Son, Publishers, 334 Washington Street, Boston), or address

R. M. HODGES, M. D.

Secretary of the Committee.

33—am

TO THE MEDICAL PROFESSION.

The undersigned was appointed at the last annual meeting of the Illinois State Medical Society, held at Rock Island, a committee to report at the next annual meeting of the Society upon the subject of Galvano-therapeutics.

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Jacksonville, Ill., June, 1872.

33—1m

DAVID PRINCE.

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SESSION OF 1872-73.

THE COLLEGIATE YEAR in this Institution embraces a Preliminary Autumnal Term, the Regular Winter Session, and a Summer Session.

THE PRELIMINARY AUTUMNAL TERM for 1872-3 will commence on Wednesday, September 18, 1872, and continue until the opening of the Regular Session. During this term instruction, consisting of didactic lectures on special subjects and daily clinical lectures, will be given, as heretofore, by the members of the Faculty. Students desiring to attend the Regular Session are strongly recommended to attend the Preliminary Term, but attendance during the latter is not required. *During the Preliminary Term clinical and didactic lectures will be given in precisely the same number and order as in the Regular Session.*

THE REGULAR Session will commence on Wednesday, October 16, 1872, and end about the 1st of March, 1873.

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For the Annual Circular and Catalogue, giving regulations for graduation and other information, address the Secretary of the College, Prof. AUSTIN FLINT, JR., Bellevue Hospital Medical College.

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Dr. DRESCHER.—*Dear Sir:* I have carefully examined your new Electro-Magnetic Machine, with its valuable and ingenious improvements. I consider the Instrument the most complete, the most varied in its applications, and the most convenient I have ever seen. Wishing you the success your long experience in Galvanism and its practical applications justly deserves,

I remain, Yours truly, R. OGDEN DOREMUS."

Dr. DRESCHER has recently added to this Machine several very valuable improvements, Patented July 4th, and July 18th, 1871, and can now confidently pronounce his Instrument to be

The Best, the Cheapest, and most Elegant Electro-Magnetic Machine in the world.

Prices: No. 1 (small), \$10; No. 1 A, \$12.50; No. 2, \$15; No. 3, \$20; No. 4, \$30.

IV. THE PATENTED ELECTRODE CORD-SPOOLS

applied to these Instruments, on which the cords may be readily wound after application, are the delight of every Electrician.

NOTE.—The Co-Partnership heretofore constituting the Firm known as "THE GALVANO-FARADIC MANUFACTURING Co." having been dissolved on the 1st day of January, 1871, by mutual consent, **Dr. LUIS DRESCHER** retiring from his former association, has established himself under the Firm name of

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that the GALT HOUSE is not surpassed by any hotel in the
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A most useful, convenient, and desirable preparation, always ready for immediate use. Clean, prompt in its action, and keeps unaltered in any climate; easily transported and pliable, so as to be applied to all parts and surfaces of the body. It is prepared of two strengths:—No. 1, of pure mustard; No. 2, of half mustard. Each kind put up separately, in boxes of 10 plasters.

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Wakefulness, cough and other sufferings in consumption, are greatly relieved by the soothing and expectorant properties of this paste.

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This Elixir contains Iodine, Pyrophosphate of Iron, the active principles of anti-scorbutic and aromatic plants, and acts as a tonic, stimulant, emmenagogue, and a powerful regenerator of the blood. It is an invaluable remedy for all constitutional disorders due to the impurity and poverty of the blood. One of the advantages of this new preparation consists in combining the virtues of Iodine and Iron without the inky taste of Iodide of Iron.

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Each ounce of this elegant preparation contains the soluble constituents of two ounces of fresh beef, combined with the stimulating properties of pure Sherry Wine.

Fougera's Nutritive Wine, Ferrated.

This preparation is the same as the preceding, with the addition of eight grains of ammonio-citrate of iron to each ounce.

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Each ounce represents fully thirty grains of the best peruvian bark and the soluble constituents of two ounces of fresh beef. This pleasant cordial is especially useful in certain forms of dyspepsia and debility, when a tonic and slight stimulant is indicated.

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Boudault's Pepsine is considered the most reliable; it is the only one which is used in the hospitals of Paris, recommended by Professors Wood & Bache, (see American Dispensatory, 11th edition, pages 1479-1480,) and approved by the committee appointed to revise the New French Codex, (1866.) Boudault's Pepsine is sold in powder, (in 1, 4, 8, and 16 oz. bottles.) The dose is 15 grains two or three times a day, at meal times.

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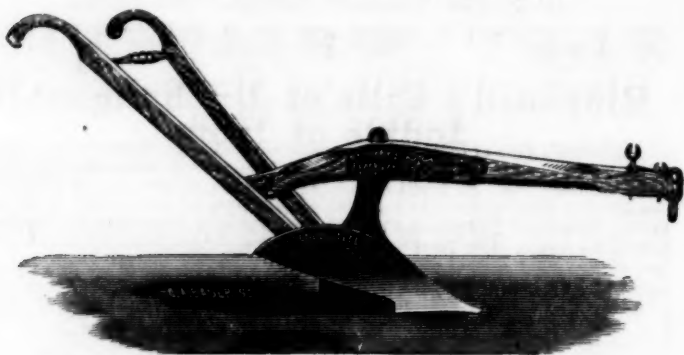


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This extract is a *pure extract of beef*, unsurpassed in quality, free from fat and gelatine, each pound of which contains the soluble nutritive constituents of 34 to 36 pounds of the finest beef, exclusive of bones and fat, corresponding to about 45 pounds of good butcher's meat. As a medicinal agent it will be found of great value to the sick, invalid and persons and children of weak constitutions. *It will keep unaltered for years in any climate.*

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By the Atomizer any medicated liquid may be converted into the finest spray. In this state it may be inhaled into the smallest air-cells, thus opening a new era in the treatment of all diseases of the throat and lungs.

The Complete Steam Atomizer for Inhalation, &c.

(See Fig. 15.)

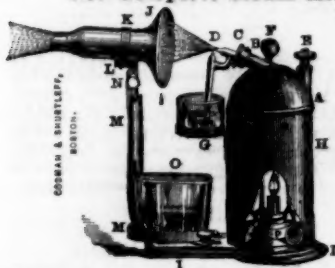


Fig. 15. Pat. Mar. 24, 1868 and Mar. 16, 1869.

The waste-cup, medicament-cup and lamp are held in their places in such a manner that they can not fall out when the apparatus is carried or used over a bed or otherwise. All its joints are hard soldered. It can not be injured by exhaustion of water, or any attainable pressure of steam. It does not throw sprits of hot water to frighten or scald the patient. Is compact and portable; occupies space of one sixth cubic foot only; can be carried from place to place without removing the atomizing tubes or the water; can be unpacked and repacked without loss of time. Will render the best service for many years, and is cheap in the best sense of the word.

PRICE.....\$6.00
Brass parts nickel-plated, additional.....2.50
Neatly made, strong, black-walnut box, with convenient handle, additional, 2.50

Shurtleff's Atomizing Apparatus. (See Fig. 5.)



Fig. 5. Patented March 24, 1868.

accompanied with directions for use. Every Steam Apparatus is tested with steam at very high pressure. Each apparatus is carefully packed for transportation, and warranted perfect. Also,

HAND BALL APPARATUS (Fig. 5, without shield), with two glass Tubes.....\$3.50
THE BOSTON ATOMIZER, with two glass Atomizing Tubes.....2.50
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THE UNIVERSAL ATOMIZER, with metal Tube.....1.50
GLASS TUBES to fit any of our apparatus, warranted perfect......55
NICKEL PLATED TUBES, for Local Anæsthesia and for Inhalation, each.....75-2.00
RHIGOLENE, for Local Anæsthesia, best quality, packed.....1.00
NASAL DOUCHE, for treating diseases of the Nasal Cavity, eight different varieties, each with two Nozzles, packed.....\$1.20, 1.50, 1.75, 2.00, and 3.50

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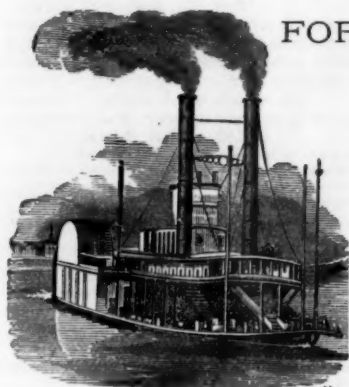
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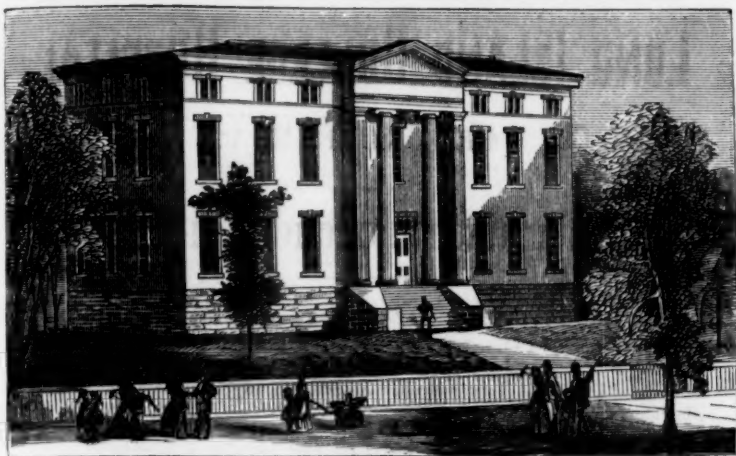
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On Public Hygiene, BY PROF. T. S. BELL.
On Clinical Obstetrics and Diseases of Women, { BY PROF. CROWE AND
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SAMUEL LOGAN, M. D.,
Professor of Anatomy and Clinical Surgery.

EDMOND SOUCHON, M. D.,
Demonstrator of Anatomy.

The next annual course of instruction in this Department (now in the thirty-ninth year of its existence) will commence on Monday, the 18th day of November, 1872, and terminate on the second Saturday of March, 1873. Preliminary Lectures on Clinical Medicine and Surgery will be delivered in the amphitheater of the Charity Hospital, beginning on the 15th of October, without any charge to students.

The means of teaching now at the command of the Faculty are unsurpassed in the United States; and are quite as complete as those of many of the renowned schools of medicine abroad. In addition to the regular didactic lectures given by the several Professors, there is attached to each separate chair a Practical Department, in which students can observe and verify for themselves the facts inculcated and discussed in the lecture room. It is to this peculiar feature of the University, and its unequalled hospital advantages, that the faculty would direct the attention of those engaged in the study of medicine, or who, having graduated elsewhere, desire to perfect themselves in any particular branch of the profession.

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BOYLSTON MEDICAL PRIZE QUESTIONS.

The Boylston Medical Committee, appointed by the President and Fellows of Harvard University, announce that the following are the questions proposed for 1873:

1. ELECTRO-THERAPEUTICS.

2. THE VALUE OF CHEMISTRY TO THE MEDICAL PRACTITIONER.

Dissertations on the above subjects must be transmitted, post-paid, to John Jeffries, M. D., Boston, *on or before the first Wednesday in April, 1873.*

The author of a dissertation considered worthy of a prize, on either of the subjects proposed for 1873, will be entitled to a premium of One Hundred and Fifty Dollars.

The following are the questions proposed for 1874:

1. THE BEST METHODS OF PREVENTING THE DEVELOPMENT AND SPREAD OF SMALL-POX.

The author of a dissertation on this subject, considered worthy of a prize, will be entitled to a premium of Two Hundred Dollars.

2. THE DEVELOPMENT AND EXTENSION OF MALIGNANT DISEASE.

The author of a dissertation on this subject, considered worthy of a prize, will be entitled to a premium of One Hundred and Fifty Dollars.

Dissertations on these subjects must be transmitted as above, on or before the first Wednesday in April, 1874.

For a more detailed announcement see Boston Medical and Surgical Journal of June 13, 1872 (David Clapp & Son, Publishers, 334 Washington Street, Boston), or address

R. M. HODGES, M. D.

Secretary of the Committee.

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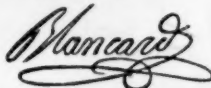
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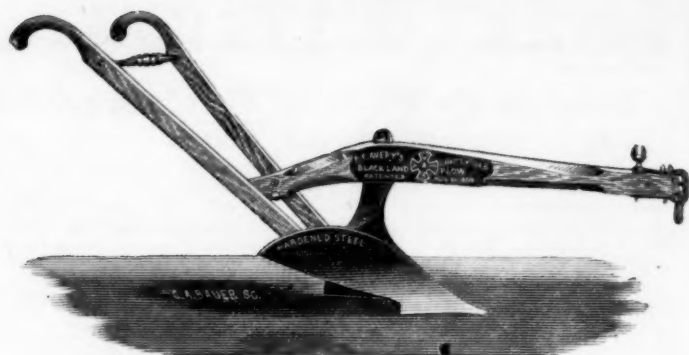
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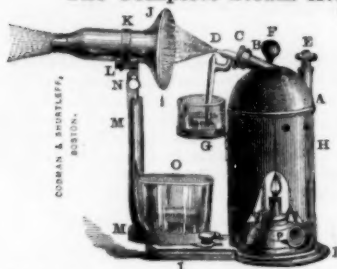


Fig. 15. Pat. Mar. 24, 1868 and Mar. 16, 1869.

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Fig. 5. Patented March 24, 1868.

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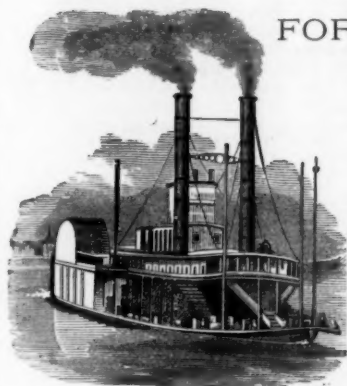
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The subscriber has purchased the entire interest of Capt.
Silas F. Miller in the

GALT HOUSE.

and pledges himself to his friends and the public that he
will spare no pains to render it worthy of its time-honored
name.

In its arrangements and appointments he is safe in saying
that the GALT HOUSE is not surpassed by any hotel in the
world.

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We aim to supply the regular Druggist and Apothecary as well as the Physician with TRUE, GENUINE, and STANDARD ARTICLES in our line of trade, and we warrant everything we sell to be as represented.

We are AGENTS for TIEMANN'S CELEBRATED SURGICAL INSTRUMENTS, which we sell at his prices.

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For the cure of Prolapsus, Retroversion, and Anteversion. Warranted a Radical Cure. Price, \$25. Price to Physicians, \$16.



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would like to see the thing extensively used, for it supplies a want long felt.

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We would respectfully call the attention of the profession to Dr. L. A. BABCOCK'S improvement in Uterine Supporters. These instruments derive their support from an external brace, and are destined to entirely supersede the old-fashioned, uncomfortable and useless pessary. They are easily adjusted, and so comfortable and advantageous to the wearer that patients who have long been confined to their beds or rooms with uterine difficulties express themselves as having "gotten into a new world" upon having a supporter applied. We speak thus positively of these instruments because we have thoroughly tested them.

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DEAR SIR: Yours, with instructions, to hand. I speak as a lecturer on obstetrics and a physician of large experience in the treatment of uterine diseases, when I say that the more I become familiar with your invention the more valuable it appears to me; and I

EDWARD A. GILBERT, M. D.

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 All orders promptly attended to. Refers to the Physicians of Louisville.

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Our Cod-liver Oil is warranted pure NEWFOUNDLAND OIL. It has stood the test of twenty years' experience, and can be relied on in every particular. Its superiority over that prepared on our own sea-shore is shown by the numerous cures performed by it when the inferior oils have been tried without effect. We make no claim to any secret mode of concentration or cold pressing, but warrant it pure *Ol. Morrhua* of the U. S. P., prepared with scientific care; and it will be found equal, if not superior, to any in the market, either domestic, Norway, or Newfoundland.

The uniform good quality of our oil has given it the preference over the numerous brands in the market, and has elicited the highest commendation from eminent physicians.

THE MOST PERFECT IRON TONIC.

HEGEMAN'S FERRATED ELIXIR OF BARK, Or ELIXIR of CALISAYA BARK with PYROPHOSPHATE of IRON.


The **Ferrated Elixir of Bark** is a pleasant cordial, possessing the valuable properties of CALISAYA BARK deprived of its tannin and coloring matter, and contains eight grains of the *Pyrophosphate of Iron* in each fluid ounce; and in all cases where a mild and efficacious iron tonic is desired will be found a most valuable preparation. As a preventive to fever and ague, and as a tonic for patients recovering from fever or other sickness, it can not be surpassed.

DIRECTIONS.—For an adult, a dessert-spoonful to a table-spoonful may be taken three times a day, before meals. Children in proportion to their age.

HEGEMAN'S CORDIAL ELIXIR OF CALISAYA BARK (PERUVIAN BARK)

The CALISAYA (or "King's Bark") is the most valuable of the numerous varieties of the Peruvian Bark, and in the Elixir is combined with other ingredients that increase its efficacy, and at the same time overcome the intensity of its bitterness, rendering it a most agreeable cordial.

For persons living in fever and ague districts it will be found invaluable as a preventive—half a wine-glassful taken night and morning rendering the system much less subject to the unhealthy influence of the atmosphere.

 The above preparations are sold by Druggists throughout the United States. Samples will be furnished on application to

HEGEMAN & CO.

Chemists and Druggists, NEW YORK

UNIVERSITY DISPENSARY

AND

SUMMER SCHOOL OF MEDICINE.

Spring and Summer Session of 1873.

The next Session of the above School will commence March 6, 1873,
and continue until July 1st.

THE FOLLOWING COURSES OF INSTRUCTION WILL BE GIVEN.

- On Venereal Diseases and Diseases of the Skin,
and Clinical Medicine, BY PROF. L. P. YANDELL, JR.
On Ophthalmic and Aural Diseases, BY PROF. J. M. BODINE.
On Diseases of the Throat and Chest, BY PROF. E. R. PALMER.
On Urinology and Diseases of the Nervous System, BY PROF. J. W. HOLLAND.
On Public Hygiene, BY PROF. T. S. BELL.
On Clinical Obstetrics and Diseases of Women, { BY PROF. CROWE AND
DR. W. H. BOLLING.
On Clinical Surgery, BY PROF. D. W. YANDELL.
On Operative Surgery and Surgical Dressings, . BY PROF. R. O. COWLING.
On Anatomy and Diseases of Children, BY DR. F. C. WILSON.
On Practice of Medicine, BY DR. W. O. ROBERTS.
On Materia Medica and Therapeutics, BY DR. MELVIN RHORER.
On Chemistry and Physiology, BY DR. D. T. SMITH.

Daily examinations will be held upon all the branches of Medicine.

The Dissecting-rooms of the University of Louisville will be open for
the Study of Practical Anatomy.

The Museum, Library, and Apparatus of the University will be used for
the benefit of the class.

The University Dispensary is situated upon the grounds of the Univer-
sity, corner Eighth and Chestnut Streets.

Six thousand patients were treated during the past twelve months within
its walls, thus affording to students ample opportunity for witnessing disease.

Obstetrical cases will be given advanced students.

☞ Daily clinics are held at the dispensary throughout the entire year.

Terms in full for Spring and Summer Session, \$25.00.

Good board can be had in this city at from \$4 to \$6 per week.

For further information address

W. H. BOLLING, M. D.

Dean of University Dispensary,

Office 126 Third Street, LOUISVILLE.

University of Louisiana Medical Department

NEW ORLEANS.

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A. H. CENAS, M. D.,

Emeritus Professor of Obstetrics and Diseases of Women and Children.

JAMES JONES, M. D.,

Professor of Obstetrics and Diseases of Woman and Children.

T. G. RICHARDSON, M. D.,

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STANFORD E. CHAILLE, M. D.,

Professor of Physiology and Pathological Anatomy.

FRANK HAWTHORN, M. D.,

Professor of Materia Medica and Therapeutics and Clinical Medicine.

JOSEPH JONES, M. D.,

Professor of Chemistry and Clinical Medicine.

SAMUEL LOGAN, M. D.,

Professor of Anatomy and Clinical Surgery.

EDMOND SOUCHON, M. D.,

Demonstrator of Anatomy.

The next annual course of instruction in this Department (now in the thirty-ninth year of its existence) will commence on Monday, the 18th day of November, 1872, and terminate on the second Saturday of March, 1873. Preliminary Lectures on Clinical Medicine and Surgery will be delivered in the amphitheater of the Charity Hospital, beginning on the 15th of October, without any charge to students.

The means of teaching now at the command of the Faculty are unsurpassed in the United States; and are quite as complete as those of many of the renowned schools of medicine abroad. In addition to the regular didactic lectures given by the several Professors, there is attached to each separate chair a Practical Department, in which students can observe and verify for themselves the facts inculcated and discussed in the lecture room. It is to this peculiar feature of the University, and its unequalled hospital advantages, that the faculty would direct the attention of those engaged in the study of medicine, or who, having graduated elsewhere, desire to perfect themselves in any particular branch of the profession.

CLINICAL INSTRUCTION.

The act establishing the University of Louisiana gives the professors of the Medical Department the use of the Charity Hospital as a school of practical instruction.

The Charity Hospital contains nearly 700 beds, and received during the last year 6,637 patients. Its advantages for professional study are unequalled by any similar institution in this country. The medical, surgical and obstetric wards are visited by the respective Professors in charge daily, from 8 to 10 o'clock A. M., at which time all the students are expected to attend and familiarize themselves, *at the bed-side of the patients*, with the diagnosis and treatment of all forms or injury and disease.

The administrators of the hospital elect annually *Twelve Resident Students*, who are maintained in the institution.

TERMS.

For the tickets of all the Professors....	\$140	Matriculation Fee.....	\$5
For the ticket of Practical Anatomy....	10	Graduation Fee.....	30

Graduates of other recognized schools may attend all the lectures upon payment of the matriculation fee; but they will not be admitted as candidates for the Diploma of the University except upon the terms required of second course students. All fees are payable in advance. For further information address

T. G. RICHARDSON, M. D., *Dean*.

ELIXIR

IODO-BROMIDE

OF

CALCIUM

COMP.



Alternative,
Antiseptic,
Resolvent,

Aperient,
Stimulant
AND
Tonic.

Medically used in Scrofula, Scrofulous Abscesses and Swellings, and all diseases of the blood traceable to a Scrofulous diathesis; in Cancer and Cancerous Tumors, Caries or diseased bone; Bronchial and Throat Affections, Pulmonary Degeneration, Erysipelas, Salt Rheum, Scald Head, and Cutaneous affections; in Neuralgia and Rheumatism, and particularly efficient as an anti-bilious remedy to combat what is commonly called "Liver Complaint."

PREPARED BY

TILDEN & COMPANY,

New Lebanon, N. Y., & 176 William St.,

NEW YORK.

Solution

IODO-BROMIDE

OF

CALCIUM

COMP.



Alternative,
Antiseptic,
Resolvent,

Disinfectant,
Tonic,
Stimulant.

(EXTERNAL USE.)

Medically used externally, in Salt Rheum, Scald Head, Eczema, Itch, "Prarie Itch" or "Prarie Mango"; Psoriasis, Herpes, Prurigo, Scabies, Gangrene, Scrofulous Swellings and Sores, Cancerous Swellings or Sores, Sloughing Sores. It also possesses superior efficacy in Chronic Rheumatism, giving often almost immediate relief.

PREPARED BY

Tilden & Company,

New Lebanon, N. Y., & 176 William St.,

NEW YORK.

Iodo-Bromide of Calcium Compound.

Component Parts.—Bromine, Iodine, Chlorine, Calcium, Magnesium, Iron, Sodium and Potassium.

Medical Properties and Action.—Alterative, resolvent, disinfectant, stimulant, tonic, and in its pure state somewhat caustic and irritant.

Properly diluted it becomes readily absorbed, increasing the action of the secretory organs, and if sufficiently long continued appears to act specifically upon the lymphatic glandular system, causing the reduction or absorption of glandular and other tumors, and also exhibiting its alterative influence, whereby a certain type of diseases becomes amenable to its use.

Applied in its pure state, it produces intense local action, and often causes a powerful sensation of pricking and smarting. It should be diluted according to the sensibility of the parts to which it is applied. For ordinary use, one part to four parts of water or diluted alcohol is a sufficient dilution.

We take pleasure in presenting the Profession this new and valuable combination, confident a trial only is necessary to prove its efficiency and promptness of action to combat the pathological conditions on which depends a very large number of the cutaneous diseases, and to support its claims as a topic superior to any other which has heretofore been placed in the hands of the physician. An examination of the elementary constituents of this combination is sufficient guarantee of its potency over the many morbid affections to which the skin and mucous surfaces are liable and perhaps the strongest recommendation that can be urged for its use. And it is hoped the Profession will give it an impartial trial. In our hands it has seldom disappointed, though we have prescribed it in diversified cases. We have seen cases of ordinary itch yield to it by one application, even after an obstinate resistance of months to the usual remedies, and no less gratifying results have we seen follow its application in *Psoriasis, Herpes, Prurigo, Scabies, Gangrene, Scrofulous Sores, Sloughing Sores*. It possesses also a superior efficacy in *Chronic Rheumatism* and will sometimes give almost immediate relief. A weak solution will be found advisable and efficacious in removing pimples on the face.

SCABIES OR ITCH may be cured most rapidly by Iodo-Bromide of Calcium Compound. Even the inveterate ones have been completely cured by this without any annoyance or interruption of the patient's ordinary business. A few applications will generally be sufficient to destroy the parasite. It gives prompt relief from itching.

Several cases in practice have been reported which were successfully treated by this agent alone; one particularly interesting case, that of a child, male, aged fourteen years, of a scrofulous diathesis, who had been under medical treatment for over a year without any noticeable improvement, which was promptly cured by the following:

R. Iodo-Bromide of Calcium Compound, $\frac{3}{4}$ i.

Water, $\frac{3}{4}$ iv. M.

Sponge parts affected, twice daily. Suspend if it produce too much irritation—to renew if necessary—graduating strength to suit.

This method of cleansing the system of the scabies is evidently a great improve-

ment upon the use of disgusting sulphur-ointment, or the more dangerous arsenic and quicksilver preparations.

CHRONIC RHEUMATISM.—A. M., male, aged fifty years, had been afflicted with rheumatism in the hip joints for several years; at times completely disabled; had gone through the whole list of drugs without any good effect whatever; was almost instantly relieved by the Iodo-Bromide of Calcium Compound, and now relies upon this topic to banish pain whenever it recurs.

IN RHEUMATISM.—Use two parts diluted alcohol (*i. e.* equal parts alcohol and water) or water and two parts of the Compound; bathe the parts with it warm, rub well and then cover with a flannel moistened with it. If it produces too much irritation reduce with diluted alcohol or water; alcohol in Rheumatism is preferable, but if not convenient use water.

RHEUMATISM.—Dr. Tefft of Topeka, says, "have used the Iodo-Bromide of Calcium Compound with the best of success. My father had it in a case of Sciatica Rheumatism in a child about nine years of age, the child is doing well, able to go around the house now.

I tried it in a case of Chronic Rheumatism, in a patient about fifty years of age, he said he had tried about every medicine that he had ever heard recommended for Rheumatism, and when I commenced I considered the case hopeless, but he says that the pain has left his feet and legs, and that he feels better than he has before for years.

From the success I have had, I regard it as the best medicine for Rheumatism I ever used.

A friend and neighbor afflicted with Chronic Rheumatism informs me that he derived great benefit from its use, the muscular soreness and stiffness being almost immediately removed, by sponging with the Iodo-Bromide about two parts of water to one of the solution; when diluted the effect was not so speedy nor so perceptible.

We refer to the *chronic type*; in *acute forms* we have not used it, for the reason that its effect is to dislodge the disease, and we should only suggest its use in acute cases when the disease is about the chest or vital parts.

STATEBURGH, N. C., Aug. 7, 1871.

ELEPHANTIASIS.—Dr. A.—I have used it in a case of Elephantiasis of some twenty years' standing, and I think with decided benefit.

PSORIASIS.—The treatment of this, as well as other affections of the skin, will be regulated by the age and constitution of the patient, the stage of the disease, and its complications. In the way of local treatment, the Iodo-Bromide of Calcium Compound will answer best, diluted with water, and in such proportions as the circumstances of the case may direct.

At the outset of this disease, and in direct proportion to the degree of irritation present, remedies should be emollient in character.

ECZEMA.—The cure of this affection is to be attained by constitutional and local treatment. When the disease has passed into the chronic stage, *irritability or sluggishness*, which calls for stimulant remedies, a solution of Iodo-Bromide of Calcium Compound, properly diluted, will be found eminently useful.

A Physician thus writes, Feb. 2, 1871. "Accept my thanks for the bottle of Iodo-Bromide of Calcium Compound. I have used it in a most inveterate case of Eczema, and find more relief to the terrible itching than from any other medica-

ments that I have used. The case is progressing finely but my Iodo-Bromide is gone; will you therefore send me more immediately, for I dare not be without it, the success of the case depends upon it."

Another Physician writes, Feb. 20. I have used your preparation of Iodo-Bromide in a case of Salt Rheum with excellent success, it is a case of long standing which seemed incurable and requires patience, and is now better than for years past. I have used it in many skin affections always with success. Its application is very wide in the hands of an intelligent Physician, and I regard it as one of the most valuable remedies you make.

SCALD HEAD.—Another writes he has applied it in this disease and effected a cure, and promises a report.

This is a saturated solution. Put up in Pint Bottles.

Elixir Iodo-Bromide of Calcium, Compound.

In Scrofulous Abscesses, Caries, Tumors, Neuralgia, &c.

Was called August 10, 1869, to P. V., æt. 12, Irish, of a scrofulous diathesis. He had been under medical treatment for several months without appreciable relief. At the request of the attending physician I was summoned to take charge of the case. I learned that the boy was first attacked with pain and swelling in the hip, simulating acute rheumatism, which subsequently terminated in a large abscess, which required opening. Suffering intense, necessitating the constant employment of morphine in large doses for several weeks, the pain continued in violence, until abscess after abscess appeared, one on hip, one in groin, two on leg below the knee and one above—in all five. The draught upon the vitality of the system was so profuse and debilitating, that in a very short time the patient had not strength sufficient to enable him to rise from the bed. The appetite became poor, the secretions scanty, which together with the insomnia and general cachexia, apparently foreshadowed speedy dissolution. My treatment was confined to alteratives, such as Iodine, Iodoform, Iodide of Potassium, Carbolic Acid, (as a topic and internally) Arsenical preparations and the Phosphates—to tonics such as Elixir of Iron, Quinia and Strychnia, Chemical Food and Ferrated Wine of Wild Cherry, and of this class of remedies, the "Ferrated Wine of Wild Cherry," manufactured by TILDEN & Co., was the only agent which appeared to effect the system. This restored the appetite and thus far immeasurably benefited my patient—though further than that the disease remained unchecked and my treatment abortive. The suppuration continued profuse and portions of dead bone were from day to day extracted. Several physicians of large experience saw the patient with me, though they suggested no alteration of the plan of treatment.

At this stage of the disease, I read in the *Journal of Materia Medica* a notice of a new remedy, the "Elixir of Iodo-Bromide of Calcium Comp." highly commended for its alterative properties and especially its power in combatting scrofulous cachexia, &c. I wrote to Messrs. TILDEN & Co., for and received a bottle by express. I directed my patient to take one teaspoonful three times a day—the medicine being rather agreeable he expressed a preference for it, rather than the remedies he had been using. Upon visiting the boy after a few days, I was surprised at the marked improvement observed in the appetite and general indications of

the case. I advised him to continue it use, gradually increasing the dose. In one week's time the mother calling at my office remarked, "my boy is better." During the day I saw the boy, and found the discharge was less profuse and had a more healthy appearance. Improvement continued *uninterrupted; no more dead bone* was observed after patient had been *finally placed under the influence of this new medicine*. In one month's time the boy was able to walk a half-mile from home. He is now nearly well. Since patient commenced taking "The Elixir of Iodo-Bromide of Calcium Compound," I have given him no other medicines only as was necessary to correct the disturbed condition of the secretions; consequently the combatment of the disease must be attributable to the influence of the "Iodo-Bromide."

I have since used this new agent in a large number of cutaneous diseases and am highly gratified with its effect. I consider it a *valuable acquisition* to our therapeutic agents and could not think of being without it.

April, 1871.

L. ROGERS, M. D.

In Rheumatism and Piles.

Communicated by X. T. BATES, M. D.

Was called January 6, 1872 to attend M. C., aged 50 years, of a scrofulo-rheumatic diathesis. He had been under treatment for rheumatism for nearly two years, by several physicians of eminence, who agreed as to the basic disease, but differed materially as to the complication. One diagnosed a cancer of the stomach, another scirrhus affection of the liver, another suspected malignant disease of the rectum, all overlooking the real dominant morbid action. During this time he had been confined to the bed, and gradually on the decline, until he finally lapsed into a condition in which he was barely able, unaided, to raise himself in bed. Appetite poor, countenance cachectic, occasional vomiting, foul breath, fetid odor in room, bowels confined, renal secretions scanty, much rheumatic heat in the bowels, and a distressing cough, which particularly set in at night, sometimes quite banishing sleep, while the mental depression quite equalled physical prostration. He was also suffering from the bloody piles, and at the time of my first seeing him he remarked to me that he thought the piles was the one pre eminent cause of his prostration. The odor of the room was very offensive and sickening, and to its malarial and nauseative influence I could but attribute one cause at least of his physical exhaustion and cachexia. Here the Bromo Chloralum was called into requisition, and proved itself signally efficient in completely removing the odor and purifying the air. Hope entirely had deserted him of getting relief from the rheumatic fever, pain and stiffness of joints, and he solicited only a cure for the piles, and the cough. Such then was the patient's condition when he came under my treatment, and I must confess, that in consideration of the chronic character of his complaints, and ability of his medical advisers, that I had little hope of benefitting him. But having read in the "Journal of Materia Medica" the gratifying experiences of the Profession with the Elixir Iodo-Bromide of Calcium Compound, in both rheumatic and scrofulous affections, and having myself used this "Compound" with marked success in many conditions when I thought only an alterative was required, I thought here also to try its power. I consequently prescribed:

R. Elixir Iodo-Brom. Cal. Comp. $\frac{3}{4}$ viii.

Take one teaspoonful 3 times a day for 3 or 4 days, after which duplicate the dose, and for his distressing cough I prescribed:

R. Syrup Tolu, Syrup Wild Cherry, aa $\frac{3}{4}$ ii.

Take one teaspoonful "pro re nata." In one week's time the cough was better, but in other respects his condition was unchanged. Nevertheless I continued the above treatment, and in about a month thereafter my patient began to experience considerable relief from the piles, and the system generally to recuperate. He has continued to improve, and now both the cough and the piles have succumbed, the rheumatic fever is less severe, the cachexia passing off, and his general strength greatly improved.

Even though the "Iodo" may not be successful in dislodging and eradicating the rheumatism, in that it has but restored strength, and cured the piles, it has proved itself a powerful and useful remedy, and a valuable acquisition to the "Materia Medica." I have found the Elixir Iodo-Bromide Calcium Compound by far the most satisfactory alternative I ever used.

In Neuralgia, Rheumatism, and Otorrhœa.

S. R. Nissly, M. D., Pemberton, Ohio, communicates to us his success with this new compound as follows:—

"I have tried the Iodo-Bromide of Calcium Comp. in several cases externally with the happiest results. I relieved one case obstinate Facial Neuralgia by two applications, its prompt relief was almost magical in this case. I also tried it in one case of Hemisrania, and three of Chronic Rheumatism, (Lumbago). I have been treating a case of Chronic Otorrhea with sanæous and fœtid discharges, I tried argenti nitratis, zinc chlor. liq. plumb. subacetatis and I have failed in arresting the discharge; it is some eight years' standing, the sequelæ of Scarlatina. I concluded that I would try the Iodo-Bromide of Calcium Compound, I diluted the compound 1 part to 1 part of water, and injected the solution for three consecutive days, and to my utter surprise I have succeeded in arresting the discharge completely, and the patient expresses herself cured. Have you ever used the Compound internally.

In Cancer of the Rectum.

Dr. S. H. POTTER, of Hamilton, Ohio, writes "I have recently used the Iodo-Bromide of Calcium Comp., in a canceroid tumor of the rectum, and have been highly gratified with its action. After using this remedy two days per enema twice a day, the bloody and morbid discharges ceased. In conjunction with this topic I prescribed "Fowler's solution" and the Acid Tincture of Iron to be alternated.—Under this treatment the patient has rapidly improved.

In Chronic Irritable Ulcer.

Dr. S. H. POTTER in a subsequent letter also says; Allow me to express my sincere gratitude for your offer to send me a quantity of the Elixir Iodo-Bromide of Calcium Compound. It has proven itself in every case a very valuable and potent remedy. I have been using it on a Chronic Irritable Ulcer on my own person arising from a severe contusion five years' since.

Singular as it seems nothing else promotes healthy granulations, nothing else can be tolerated, and yet this acts like a charm.

Both internally and externally I have found it more efficacious than any other medicine that an experience of forty years devoted practice enables to select.

In a Case of Scrofulous Abscess.

Dr. M. F. Harvy, (Ontario Canada) writes; the Elixir Iodo-Bromide Calcium Compound is a magnificent remedy. I am using it with marked success in a case of Scrofulous Abscess in the upper part of the femur.

I think more of this remedy than all the many alternatives I have noticed in medical journals for the last two years.

In Prairie Itch and "Prairie Mange."

MARK RANNEY, M. D., (Iowa Hospital for the Insane, Mount Pleasant, Iowa), writes:

I have been much pleased with the action of the Iodo-Bromide of Calcium Compound, in that somewhat intractable disorder of this region known as "Prairie Itch" and "Prairie Mange". It has proved in my hands the most effective remedy that I have tried for its treatment.

The Elixir of the same, I think, is a valuable addition to the physician's list of remedies for a state of ill health in which vitiated secretions are prominent symptoms.

I shall make further use of both the above named preparations.

In Rheumatic Pain, and Scrofulous Eruption.

L. C. EDWARDS, (Beaver Springs, Pa.) advised the use of the Solution Iodo with the following remarkable success:

The "Iodo-Bromide," in my opinion, has rendered very unexpected service in removing rheumatic pains; and even removed the signs of a scrofulous eruption on the upper right arm. Similar signs preceded several abscesses on the right leg, before we had the "Bromide," and also one on the right shoulder. Exfoliation took place both at the leg, and upon the shoulders. But after using the Bromide upon the arm, the enlargement which was deep seated, was drawn to the surface in the form of little white pimples from which ossified or granulated matter was taken. We shall continue its use.

In Scrofulous Swellings and Ulceration.

Communicated by WM. B. ANSLEY, M. D.

In regard to the Iodo-Bromide of Calcium Compound, I will say, as far as I have tried it, it seems to be all that we could desire. I will only give the outlines of one case out of several of a similar kind that I have treated with this remedy.

Robert J—, aged 26,—English,—came to me for treatment, Sept. 15, with scrofulous swelling and ulceration of the cervical, lymphatic glands, of 18 months' standing. Two of these glands were discharging freely, characteristic scrofulous pus, and some four others were much swollen, two of them seemingly just ready to break down, which they afterwards did. His history showed the disease to be hereditary. His general health was completely broken down, so that he could not follow his usual occupation, that of a sheet roller. He was placed on the following medicine:

B. Elix. Iodo-Brom. Cal. Comp., (Tilden's.)

Fluid Ext. Sarsap.,—aa.,..... ʒ iii.

Sig.—Dessert spoonful 8 times daily.

To the glands he applied ointment of Iodide of Cadmium. He was also directed to take as much out-door exercise as possible, and live on a nutritious diet, avoiding alcoholic stimulants. The first ten days he did not show any signs of improvement, but from that time on he has improved steadily, continuing the use of the medicine,

as originally prescribed, with but few intermissions. He may now be considered cured,—the ulceration having healed and the enlargement entirely gone. He has resumed work, but will continue using the medicine as a precautionary measure. In closing I may add that he had been treated during the entire 18 months before coming to me by some able physicians.

In a Case of Cancer.

Communicated by H. H. PIERCE, M. D., Rutland, Vt.

I have made constant use of your disinfectant, "Bromo-Chloralum" in the case of the patient that I am attending, suffering with Cancer, at this place. It works like a charm, and keeps the air perfectly pure.

I am also using the "Iodo-Bromide of Calcium Comp.," as a lotion and the Elixir of the same internally, in the same case with the happiest results. They have far excelled my expectations. My patient is greatly improved, and able to walk about his room. I would like to have you send me the same amount of "Bromo-Chloralum" and of the Elixir. for the patient, that you left me on your visit here, as I am very nearly out of both.

RICHMOND, VA., June, 1871.

I thank you for the Elixir of Iodo. It is one of the most valuable preparations you make, in scrofulous and cancerous affections.

NEW YORK, August 15.

The Elixir has been given to an elderly person, with a severe cancer of the face, with the effect of stopping the gradual destruction of the blood vessels, and great loss of blood when dressed, with also a change in the character of the secretion, increase of appetite and general strength. This is good so far and much better than expected, as the case may be considered incurable by any remedy.

St. Elmo, Ky., Aug. 2, 1871.

Dr. T. says, 'I am treating an eating sloughing ulcer of thirty years' standing pronounced and treated by several traveling "Cancer Doctors" as cancer, and I believe if patient had used this remedy one year sooner that it would have produced a cure;' he is already greatly benefited but is so feeble I do not think he can live.

BALTIMORE, MD., Aug. 1st., 1872.

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Gentlemen,—It affords me pleasure to say that I have derived the most beneficial effects from the use of the Elixir of Iodo-Bromide Calcium Compound. I had been suffering with biliary disorder for a long time, and recently was salivated to such an excessive degree as to produce general derangement and great physical prostration.

The taking of but two ounces of the above mixture has produced a normal action of the liver and restored me to a healthy condition.

Yours with respect,

A. D. GREENTRE, 373 Franklin St.

Gents—As physician to Mr. Greentre, I suggested the Elixir of Iodo-Bromide Calcium Compound, and testify to the efficacy of that combination as a remedial agent in his case.

J. E. P. BOULDEN, M. D., 169 Hoffman Street.

November, 1872.

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PULMONARY PREPARATIONS.

The above, so thoroughly defined, so highly approved, and the formulas subjected to the fullest investigation, the Physician may rely on them with confidence. They comprise the

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Known as Eclectic Pills.

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Dr. L. A. BABCOCK'S SILVER UTERINE SUPPORTER

For the cure of Prolapsus, Retroversion, and Anteversion. Warranted a Radical Cure. Price, \$25. Price to Physicians, \$16.



Dr. L. A. Babcock's SILVER UTERINE SUPPORTER, for the cure of Prolapsus, Retroversion and Anteversion. Warranted a radical cure. Price, \$25.00.

would like to see the thing extensively used, for it supplies a want long felt.

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We would respectfully call the attention of the profession to Dr. L. A. BABCOCK'S improvement in Uterine Supporters. These instruments derive their support from an external brace, and are destined to entirely supersede the old-fashioned, uncomfortable and useless pessary. They are easily adjusted, and so comfortable and advantageous to the wearer that patients who have long been confined to their beds or rooms with uterine difficulties express themselves as having "gotten into a new world" upon having a supporter applied. We speak thus positively of these instruments because we have thoroughly tested them.

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DEAR SIR: Yours, with instructions, to hand. I speak as a lecturer on obstetrics and a physician of large experience in the treatment of uterine diseases, when I say that the more I become familiar with your invention the more valuable it appears to me; and I

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THE MOST PERFECT IRON TONIC.

HEGEMAN'S FERRATED ELIXIR OF BARK,

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The **Ferrated Elixir of Bark** is a pleasant cordial, possessing the valuable properties of CALISAYA BARK deprived of its tannin and coloring matter, and contains eight grains of the *Pyrophosphate of Iron* in each fluid ounce; and in all cases where a mild and efficacious iron tonic is desired will be found a most valuable preparation. As a preventive to fever and ague, and as a tonic for patients recovering from fever or other sickness, it can not be surpassed.

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HEGEMAN'S CORDIAL ELIXIR OF CALISAYA BARK (PERUVIAN BARK)

The CALISAYA (or "King's Bark") is the most valuable of the numerous varieties of the Peruvian Bark, and in the Elixir is combined with other ingredients that increase its efficacy, and at the same time overcome the intensity of its bitterness, rendering it a most agreeable cordial.

For persons living in fever and ague districts it will be found invaluable as a preventive—half a wine-glassful taken night and morning rendering the system much less subject to the unhealthy influence of the atmosphere.

The above preparations are sold by Druggists throughout the United States. Samples will be furnished on application to

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Compound
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The immeasurable therapeutic superiority of this oil over all other kinds of Cod Liver Oils sold in Europe or in this market, is due to the addition of IODINE, BROMINE and PHOSPHORUS.

This oil possesses not only the nourishing properties of Cod Liver Oil, but also the tonic, stimulant and alterative virtues of IODINE, BROMINE and PHOSPHORUS, which are added in such proportions as to render FOUGERA'S COD LIVER OIL FIVE TIMES STRONGER and more efficacious than pure Cod Liver Oil.

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(COMP. DRAGEES OF SANTONINE.)

Santonine, the active principle of *Semen contra*, (European Wormseed,) occupies the first rank among the anthelmintic remedies. In this preparation the Santonine is combined with a purgative agent under the form of a sugar coated pill, and thus forms a pleasant and efficacious remedy, which has been used for many years. Each dragee contains one half grain of santonine and one fifth grain of gambogine.

Fougera's Ready-made Mustard Plasters.

A most useful, convenient, and desirable preparation, always ready for immediate use. Clean, prompt in its action, and keeps unaltered in any climate; easily transported and pliable as to be applied to all parts and surfaces of the body. It is prepared of two strengths:—No. 1, of pure mustard; No. 2, of half mustard. Each kind put up separately, in boxes of 10 plasters.

Fougera's Pectoral Paste,

(Iceland Moss, Lactucarium, Ipecac, and Tolu.)

Used with great success against nervous and convulsive coughs, hooping cough, acute bronchitis, chronic catarrh, influenza, &c.

Wakefulness, cough and other sufferings in consumption, are greatly relieved by the soothing and expectorant properties of this paste.

Fougera's Iodo-Ferro-Phosphated Elixir of Horse Radish.

This Elixir contains Iodine, Pyrophosphate of Iron, the active principles of anti-scorbutic and aromatic plants, and acts as a tonic, stimulant, emmenagogue, and a powerful regenerator of the blood. It is an invaluable remedy for all constitutional disorders due to the impurity and poverty of the blood. One of the advantages of this new preparation consists in combining the virtues of Iodine and Iron without the inky taste of Iodide of Iron.

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Invite the attention of the medical profession to

Fougera's Nutritive Preparations,

A series of new tonic remedies containing **LIEBIG'S EXTRACT OF MEAT**, which experience has proved to be among the most valuable tonics known.

Fougera's Nutritive Wine.

Each ounce of this elegant preparation contains the soluble constituents of two ounces of fresh beef, combined with the stimulating properties of pure Sherry Wine.

Fougera's Nutritive Wine, Ferrated.

This preparation is the same as the preceding, with the addition of eight grains of ammonio-citrate of iron to each ounce.

Fougera's Nutritive Elixir of Calisaya.

Each ounce represents fully thirty grains of the best peruvian bark and the soluble constituents of two ounces of fresh beef. This pleasant cordial is especially useful in certain forms of dyspepsia and debility, when a tonic and slight stimulant is indicated.

Fougera's Nutritive Elixir of Calisaya, Ferrated.

This preparation is the same as the preceding, but contains in addition eight grains of pyrophosphate and ammonio-citrate of iron, per ounce. Dose, a dessert to a tablespoonful three times a day. This will be found one of the very best of tonics.

Fougera's Nutritive Syrup of Iron.

Each ounce of this syrup contains sixteen grains of pyrophosphate and ammonio-citrate of iron, and the soluble constituents of two ounces of fresh beef. Dose, for adults, a dessert spoonful; for children, a teaspoonful. It is especially adapted for ladies and children.

Fougera's Nutritive Food.

For invalids or convalescents. It is readily assimilated and borne by the stomach. It combines with the soluble constituents of beef, all the elements which experience has proved valuable as nourishment.

CAUTION.—Fougera's Nutritive Preparations are the only remedies which contain the Liebig's Extract of Meat, and were the first introduced in this country. All others claiming to be similar, but not containing this, **THE ONLY RELIABLE** extract of meat, must be considered as inferior. Physicians, in order to obtain the desired results, will do well to specify **FOUGERA'S Nutritive Preparations**, when desirous of using Extract of Meat in combination.

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Invite the attention of the medical profession to the following well known preparations:


Blancard's Pills of Unchangeable Iodide of Iron.

Blancard's Pills of Iodide of Iron are so scrupulously prepared, and so well made, that none other have acquired a so well deserved favor among physicians and pharmacutists. Each pill, containing one grain of proto-iodide of iron, is covered with finely pulverized iron, and covered with balsam of tolu. Dose, two to six pills a day. The genuine have a *reactive silver seal* attached to the lower part of the cork, a green label bearing the following description;

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Boudault's Pepsine is considered the most reliable; it is the only one which is used in the hospitals of Paris, recommended by Professors Wood & Bache, (see American Dispensatory, 11th edition, pages 1479-1480,) and approved by the committee appointed to revise the New French Codex, (1866.) Boudault's Pepsine is sold in powder, (in 1, 4, 8, and 16 oz. bottles.) The dose is 15 grains two or three times a day, at meal times.

It is used with great success for *Dyspepsia, Gastralgia, Slow and Difficult Digestion* following fevers, and also for *Consumption* and other *Chronic Diseases*. *Debility of the Stomach*, from old age or abuse of liquors, is relieved by it, and it is invaluable as a corrective of *Vomiting during Pregnancy*.

Physicians can always depend upon Boudault's Pepsine, as it is always tested before being sold in the market, and has therefore always the same digestive power.

Liebig's Extract of Meat of La Plata.

Prepared by

A. BENITES & CO.,



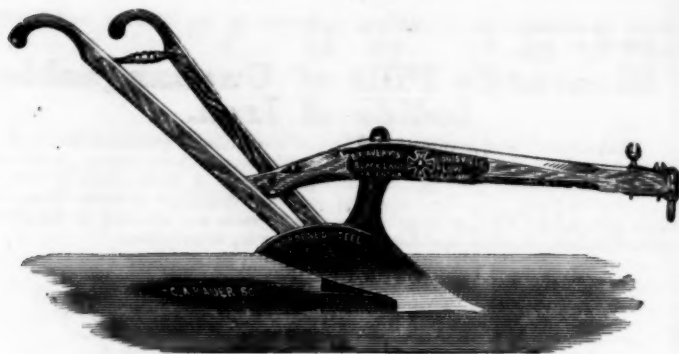
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South America.

This extract is a *pure extract of beef*, unsurpassed in quality, free from fat and gelatine, each pound of which contains the soluble nutritive constituents of 34 to 36 pounds of the finest beef, exclusive of bones and fat, corresponding to about 45 pounds of good butcher's meat. As a medicinal agent it will be found of great value to the sick, invalid and persons and children of weak constitutions.

It will keep unaltered for years in any climate.

Though not bearing the signature of Prof. Liebig, this Extract is none the less a true Liebig's Extract of Meat, being prepared according to the processes published by him, perfected by the progress of science and of industrial machinery. Before it is put in pots, it is analysed by Profs. Depaire and Jouret, of Brussels, whose signature is found on each pot.



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Cast and Steel Plows,

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we are prepared to contract for the product of these distilleries, in bond or tax paid.

To physicians and druggists who buy for cash, or on short time, we are prepared to offer Whiskies which for *age* and *quality* are unsurpassed, and at the *lowest prices* of the market. All inquiries will be promptly responded to, and samples forwarded when requested.

Soliciting your orders, we are respectfully,

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We have been appointed General Agents for the sale of **SURGICAL** and **ORTHOPEDICAL INSTRUMENTS** manufactured by OTTO & REYNDERS, 64 Chatham Street, New York. We will keep on hand a general assortment of their instruments, which for quality can not be excelled. We will be able to furnish physicians with any instrument they may desire, if not in our stock, within six days from receipt of order. Directions for measurements for Apparatus for Deformities, Splints, Stockings, &c., furnished on application. Goods guaranteed to give satisfaction. Orders addressed to us will receive prompt attention.

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And new inventions on hand and received constantly from our Agents in Europe.
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CODMAN & SHURTLEFF'S APPARATUSES FOR ATOMIZATION OF LIQUIDS FOR INHALATION LOCAL ANÆSTHESIA, &c.

By the Atomizer any medicated liquid may be converted into the finest spray. In this state it may be inhaled into the smallest air-cells, thus opening a new era in the treatment of all diseases of the throat and lungs.

The Complete Steam Atomizer for Inhalation, &c.

(See Fig. 15.)

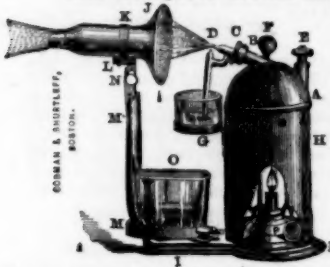


Fig. 15. Pat. Mar. 24, 1868 and Mar. 16, 1869.

The waste-cup, medicament-cup and lamp are held in their places in such a manner that they can not fall out when the apparatus is carried or used over a bed or otherwise. All its joints are hard soldered. It can not be injured by exhaustion of water, or any attainable pressure of steam. It does not throw sprits of hot water to frighten or scald the patient. Is compact and portable; occupies space of one sixth cubic foot only; can be carried from place to place without removing the atomizing tubes or the water; can be unpacked and repacked without loss of time. Will render the best service for many years, and is cheap in the best sense of the word.

PRICE.....\$6 00
Brass parts nickel-plated, additional.....2 50
Neatly made, strong, black-walnut box, with convenient handle, additional, 2 50

Shurtleff's Atomizing Apparatus. (See Fig. 5.)



Fig. 5. Patented March 24, 1868.

For Inhalation, and, with suitable tubes, for Local Anæsthesia, and for making direct local applications of atomized liquids for a great variety of purposes. (See our pamphlet.)

The most desirable hand apparatus. Rubber warranted of very best quality. Valves imperishable—every one carefully fitted to its seat, and work perfectly in all positions. The Bulbs are adapted to all the Tubes made by us for Local Anæsthesia in Surgical Operations, Teeth Extraction, and for Inhalation. PRICE.....\$4.00

Will be sent by mail (post-paid), on application, a Pamphlet containing two articles, by distinguished foreign authority, on

"INHALATION OF ATOMIZED LIQUIDS,"

With formulae of those successfully employed. Also, an article by Dr. J. L. W. THURICUM, M. B. C. P., on "A New Mode of Treating Diseases of the Nasal Cavity," with his formulae.

Also an illustrated description of the *best apparatuses* for the above purposes, and for producing LOCAL ANÆSTHESIA by Atomization with Ether, by the method of Dr. RICHARDSON, of London; or with Rhigolene, as described by Dr. HENRY J. BICKLOW, in the *Boston Medical and Surgical Journal* of April 19, 1866.

ALL OUR ATOMIZING INSTRUMENTS are made with the utmost care, with a view to their complete efficiency, convenience, and durability, and every one is warranted. A Gold Medal has lately been awarded us by the Middlesex Mechanics Association for Atomizing and Surgical Instruments, as will be seen from the following report, signed by a leading New England Surgeon and Physician:

"1503. *Codman & Shurtleff, Boston. One Case Surgical Instruments and Atomizers.*—The Committee have no hesitation in awarding for this superb exhibition the highest premium. . . . The various other instruments for Inhalation of Atomized Liquids and for Local Anæsthesia were all apparently faultless, both in design and workmanship. The exhibitors are regarded as more especially deserving of the highest token of merit for having produced nothing except of their own manufacture.—Gold Medal.

(Signed)

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Also, by the Massachusetts Charitable Mechanics Association—Exhibition of 1869—A Silver Medal, the *Highest Medal* awarded for Surgical Instruments.

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- Simple Throat Mirrors..... 1.00
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- Holt's Dilator, improved.....20.00
- Barnes' Dilator, set of three, with Inflator and Stopecks..... 5.00
- Large Ear Mirrors, Troitsche's...3.50 to 5 00
- Hypodermic Syringes..... 3.00 to 13.00
- * Miller's Intra-Uterine, Scarificator, in case (post-paid)..... 7.00
- Lente's Intra-Uterine Caustic Instruments.....1.25 to 3.50
- Sponge Tents, plain and carbolized, each..... 25
- * Dr. Cutter's Retroversion and other Pessaries.....3.00
- * Gæbe's Electro-Medical Apparatus...15 00

- French Rubber Urinals, with valves, male, for night or day.....\$6.00
- Male, day only.....2.50 to 4.00
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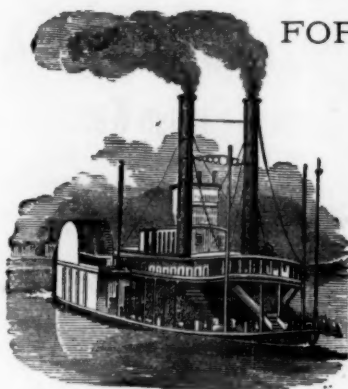
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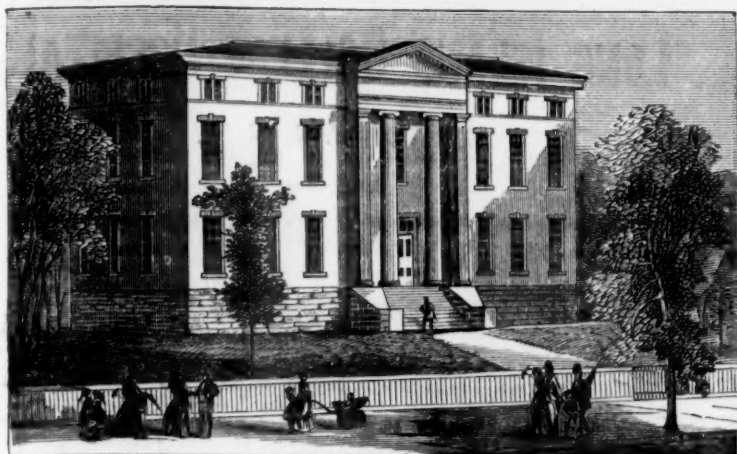
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Situated on the Madison & Indianapolis Railroad, in a thriving little village, with excellent schools and fine church facilities, surrounded by a good country. I will sell my property and practice. The house is a two-story frame, containing seven rooms, with two front porches, and a good cellar; the office attached to house. An excellent well and a large cistern on the premises. The outhouses—buggy-house, wood-shed, frame stable, &c.—are in good condition. My practice amounts to \$2,000 a year. All may be had for FIFTEEN HUNDRED DOLLARS (\$1,500). Apply immediately, or address

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Its *Rates of Premium* are the same adopted by the leading Mutual Companies in America, sanctioned by experience and the highest scientific authority. Its *Dividends* are upon the contribution plan, which is just both to the new and old policy-holder, and may be applied to increase the amount of insurance or in diminishing the annual premium, which thereby grows less each year with the age of the policy. These *dividends once declared, and reversionary additions*, are made *non-forfeitable for failure to pay premium on the original policy*—a just though unusual stipulation of the policy itself. The policy stipulates to pay to each holder a *just proportion of the surplus*. All policies *non-forfeitable* after payment of two full annual premiums.

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Death losses in this company in the four years of its existence have been under fifty per cent. of the table rate, while seventy-five per cent. would have shown great care in the selection of risks.

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Regulating Life Insurance Companies are as rigid in their requirements as those of any state in the Union. Deposit of \$100,000 and over has been promptly made, as shown by the certificate of the State Treasurer, and the supervision required will guarantee to those interested *security* in the affairs of the Company.

STATE TREASURER'S CERTIFICATE OF DEPOSIT.

OFFICE OF THE TREASURER OF KENTUCKY, FRANKFORT, May 13, 1870.

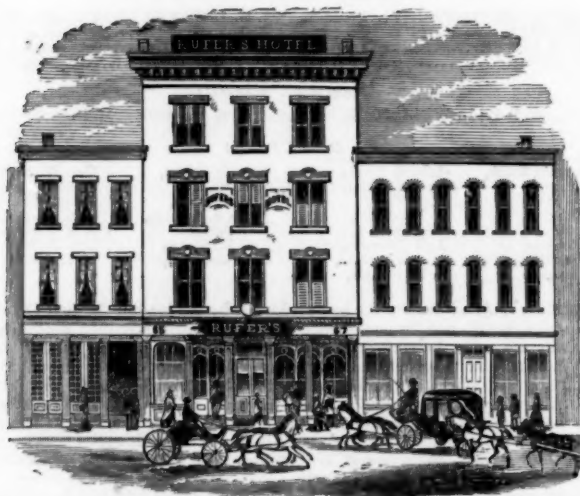
The Southern Mutual Life Insurance Company of Kentucky has deposited bonds of the par value of one hundred and twenty thousand dollars, and of market value exceeding one hundred thousand dollars, to be held by the Treasurer for the benefit of the policy-holders of said company under the provisions of an act of the Legislature of Kentucky "for the incorporation and regulation of life insurance companies," approved March 12, 1870.

v5, 1-17

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MUTUAL LIFE INSURANCE CO.
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ESTABLISHED IN 1851.

ASSETS, OVER \$6,000,000.

THIS COMPANY issues *every desirable form of Policy*, and each Policy is

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IT IS A PURELY MUTUAL COMPANY; ALL THE PROFITS ARE DIVIDED AMONG THE INSURED.

NO EXTRA PREMIUM CHARGED FOR RESIDENCE IN THE SOUTH OR IN ANY PART OF THE WORLD OUTSIDE THE TROPICS.

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ITS POLICIES ARE EASILY UNDERSTOOD.

The Ratio of Assets to Liabilities is greater than that of any other Company in the country.

The Phoenix is the only Company in the country which offers ALL the advantages of an all-cash or half-note Company.

Information as to Local Agencies, or Insurance, promptly furnished.

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The subscriber has purchased the entire interest of Capt.
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and pledges himself to his friends and the public that he
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In its arrangements and appointments he is safe in saying
that the GALT HOUSE is not surpassed by any hotel in the
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The above, so thoroughly defined, so highly approved, and the formulas subjected to the fullest investigation, the Physician may rely on them with confidence. They comprise the

PILL ALOIN CUM FERRO,

Known as Eclectic Pills.

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COMPOUND QUININE PILL,

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COMPOUND FLUID SANGUINARIA, Alcoholic,

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Ten years, with most satisfactory results, has clearly proved the importance of the above line of medical preparations, and full formulas have been published in all leading journals. Such in detail, describing *samples*, and plans of getting such on in quantities, sent on demand.

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Dr. L. A. BABCOCK'S SILVER UTERINE SUPPORTER

For the cure of Prolapsus, Retroversion, and Anteversion. Warranted a Radical Cure. Price, \$25. Price to Physicians, \$16.



Dr. L. A. Babcock's SILVER UTERINE SUPPORTER, for the cure of Prolapsus, Retroversion and Anteversion. Warranted a radical cure. Price, \$25.00.

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We would respectfully call the attention of the profession to Dr. L. A. BABCOCK'S improvement in Uterine Supporters. These instruments derive their support from an external brace, and are destined to entirely supersede the old-fashioned, uncomfortable and useless pessary. They are easily adjusted, and so comfortable and advantageous to the wearer that patients who have long been confined to their beds or rooms with uterine difficulties express themselves as having "gotten into a new world" upon having a supporter applied. We speak thus positively of these instruments because we have thoroughly tested them.

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Our Cod-liver Oil is warranted pure NEWFOUNDLAND OIL. It has stood the test of twenty years' experience, and can be relied on in every particular. Its superiority over that prepared on our own sea-shore is shown by the numerous cures performed by it when the inferior oil have been tried without effect. We make no claim to any secret mode of concentration or cold pressing, but warrant it pure *Oil Morrhua* of the U. S. F., prepared with scientific care; and it will be found equal, if not superior, to any in the market, either domestic, Norway, or Newfoundland. * The uniform good quality of our oil has given it the preference over the numerous brands in the market, and has elicited the highest commendation from eminent physicians.

THE MOST PERFECT IRON TONIC.

HEGEMAN'S FERRATED ELIXIR OF BARK, Or ELIXIR of CALISAYA BARK with PYROPHOSPHATE of IRON.


The **Ferrated Elixir of Bark** is a pleasant cordial, possessing the valuable properties of **CALISAYA BARK** deprived of its tannin and coloring matter, and contains eight grains of the *Pyrophosphate of Iron* in each fluid ounce; and in all cases where a mild and efficacious iron tonic is desired will be found a most valuable preparation. As a preventive to fever and ague, and as a tonic for patients recovering from fever or other sickness, it can not be surpassed.

DIRECTIONS.—For an adult, a dessert-spoonful to a table-spoonful may be taken three times a day, before meals. Children in proportion to their age.

HEGEMAN'S CORDIAL ELIXIR OF CALISAYA BARK (PERUVIAN BARK.)

The **CALISAYA** (or "King's Bark") is the most valuable of the numerous varieties of the Peruvian Bark, and in the Elixir is combined with other ingredients that increase its efficacy, and at the same time overcome the intensity of its bitterness, rendering it a most agreeable cordial.

For persons living in fever and ague districts it will be found invaluable as a preventive—half a wine-glassful taken night and morning rendering the system much less subject to the unhealthy influence of the atmosphere.

 The above preparations are sold by Druggists throughout the United States. Samples will be furnished on application to

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Special attention is given to Club-foot Shoes, Bow Legs, Weak Ankles, Extension, Hip-joint and Spinal Apparatus, Abdominal Supporters, with or without Springs, Wire-gauze Splints for any fracture and size. Trusses for Hernias and Tumors made and professionally adjusted.

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Fougera's
Iodinized



Compound
Cod Liver Oil.

The immeasurable therapeutic superiority of this oil over all other kinds of Cod Liver Oils sold in Europe or in this market, is due to the addition of IODINE, BROMINE and PHOSPHORUS.

This oil possesses not only the nourishing properties of Cod Liver Oil, but also the tonic, stimulant and alterative virtues of IODINE, BROMINE and PHOSPHORUS, which are added in such proportions as to render FOUGERA'S COD LIVER OIL FIVE TIMES STRONGER and more efficacious than pure Cod Liver Oil.

Fougera's Vermifuge.

(COMP. DRAGEES OF SANTONINE.)

Santonine, the active principle of *Semen contra*, (European Wormseed,) occupies the first rank among the anthelmintic remedies. In this preparation the Santonine is combined with a purgative agent under the form of a sugar coated pill, and thus forms a pleasant and efficacious remedy, which has been used for many years. Each dragee contains one half grain of santonine and one fifth grain of gambogine.

Fougera's Ready-made Mustard Plasters.

A most useful, convenient, and desirable preparation, always ready for immediate use. Clean, prompt in its action, and keeps unaltered in any climate; easily transported and pliable, so as to be applied to all parts and surfaces of the body. It is prepared of two strengths:—No. 1, of pure mustard; No. 2, of half mustard. Each kind put up separately, in boxes of 10 plasters.

Fougera's Pectoral Paste,

(Island Moss, Lactucarium, Ipecac, and Tolu.)

Used with great success against nervous and convulsive coughs, hooping cough, acute bronchitis, chronic catarrh, influenza, &c.

Wakefulness, cough and other sufferings in consumption, are greatly relieved by the soothing and expectorant properties of this paste.

Fougera's Iodo-Ferro-Phosphated Elixir of Horse Radish.

This Elixir contains Iodine, Pyrophosphate of Iron, the active principles of anti-scorbutic and aromatic plants, and acts as a *tonic, stimulant, emmenagogue*, and a *powerful regenerator of the blood*. It is an invaluable remedy for all constitutional disorders due to the impurity and poverty of the blood. One of the advantages of this new preparation consists in combining the virtues of Iodine and Iron without the inky taste of Iodide of Iron.

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Invite the attention of the medical profession to

Fougera's Nutritive Preparations,

A series of new tonic remedies containing LIEBIG'S EXTRACT OF MEAT, which experience has proved to be among the most valuable tonics known.

Fougera's Nutritive Wine.

Each ounce of this elegant preparation contains the soluble constituents of two ounces of fresh beef, combined with the stimulating properties of pure Sherry Wine.

Fougera's Nutritive Wine, Ferrated.

This preparation is the same as the preceding, with the addition of eight grains of ammonio-citrate of iron to each ounce.

Fougera's Nutritive Elixir of Calisaya.

Each ounce represents fully thirty grains of the best peruvian bark and the soluble constituents of two ounces of fresh beef. This pleasant cordial is especially useful in certain forms of dyspepsia and debility, when a tonic and slight stimulant is indicated.

Fougera's Nutritive Elixir of Calisaya, Ferrated.

This preparation is the same as the preceding, but contains in addition eight grains of pyrophosphate and ammonio-citrate of iron, per ounce. Dose, a dessert to a tablespoonful three times a day. This will be found one of the very best of tonics.

Fougera's Nutritive Syrup of Iron.

Each ounce of this syrup contains sixteen grains of pyrophosphate and ammonio-citrate of iron, and the soluble constituents of two ounces of fresh beef. Dose, for adults, a dessert spoonful; for children, a teaspoonful. It is especially adapted for ladies and children.

Fougera's Nutritive Food.

For invalids or convalescents. It is readily assimilated and borne by the stomach. It combines with the soluble constituents of beef, all the elements which experience has proved valuable as nourishment.

CAUTION.—Fougera's Nutritive Preparations are the only remedies which contain the Liebig's Extract of Meat, and were the first introduced in this country. All others claiming to be similar, but not containing this, THE ONLY RELIABLE extract of meat, must be considered as inferior. Physicians, in order to obtain the desired results, will do well to specify FOUGERA'S Nutritive Preparations, when desirous of using Extract of Meat in combination.

E. FOUGERA & CO.

PHARMACISTS,

30 North William Street, New York,

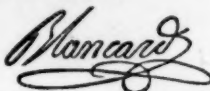
Invite the attention of the medical profession to the following well known preparations:

Blancard's Pills of Unchangeable Iodide of Iron.

Blancard's Pills of Iodide of Iron are so scrupulously prepared, and so well made, that none other have acquired a so well deserved favor among physicians and pharmacutists. Each pill, containing one grain of proto-iodide of iron, is covered with finely pulverized iron, and covered with balsam of tolu. Dose, two to six pills a day. The genuine have a *reactive silver seal* attached to the lower part of the cork, a green label bearing the following description;

and the fac-simile of

GENERAL DEPOT IN THE U. S. AT
E. & S. FOUGERA, N. Y.



Pharmacien, No. 40 Rue Bonaparte, Paris.

Boudault's Pepsine,

And Wine, Elixir, Syrup, Pills and Lozenges of Pepsine.

Boudault's Pepsine is considered the most reliable; it is the only one which is used in the hospitals of Paris, recommended by Professors Wood & Bache, (see American Dispensatory, 11th edition, pages 1479-1480,) and approved by the committee appointed to revise the New French Codex, (1866.) Boudault's Pepsine is sold in powder, (in 1, 4, 8, and 16 oz. bottles.) The dose is 15 grains two or three times a day, at meal times.

It is used with great success for *Dyspepsia, Gastralgia, Slow and Difficult Digestion* following fevers, and also for *Consumption* and other *Chronic Diseases*. *Debility of the Stomach*, from old age or abuse of liquors, is relieved by it, and it is invaluable as a corrective of *Vomiting during Pregnancy*.

Physicians can always depend upon Boudault's Pepsine, as it is always tested before being sold in the market, and has therefore always the same digestive power.

Liebig's Extract of Meat of La Plata.

Prepared by

A. BENITES & CO.,



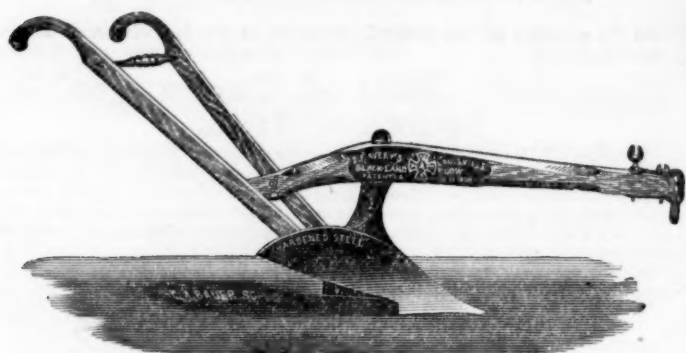
Buenos Ayres,

South America.

This extract is a *pure extract of beef*, unsurpassed in quality, free from fat and gelatine, each pound of which contains the soluble nutritive constituents of 34 to 36 pounds of the finest beef, exclusive of bones and fat, corresponding to about 45 pounds of good butcher's meat. As a medicinal agent it will be found of great value to the sick, invalid and persons and children of weak constitutions.

It will keep unaltered for years in any climate.

Though not bearing the signature of Prof. Liebig, this Extract is none the less a true Liebig's Extract of Meat, being prepared according to the processes published by him, perfected by the progress of science and of industrial machinery. Before it is put in pots, it is analysed by Profs. Depaire and Jouret, of Brussels, whose signature is found on each pot.



The above cut represents our BLACK LAND PLOW, which was awarded the first premium at the Texas State Fair, held at Houston in May, 1870. It was tried successfully in the black waxy lands of Houston, Belton, and Waco.

We manufacture and keep constantly on hand a complete stock of

Cast and Steel Plows,

Single and Double Shovel Plows,

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Plow Manufacturers,

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We make a specialty of the trade in **PURE, STRAIGHT**

KENTUCKY BOURBON AND RYE WHISKIES,

Handling none but goods in **ORIGINAL PACKAGES**, stamped as they come out of

DISTILLERY BONDED-WAREHOUSES.

We have now in store and in distillery bonded-warehouses about **10,000 barrels** of carefully-selected brands sweet and sour mash copper Whisky, offering to buyers an unequalled selection. As owners of the **NELSON DISTILLERY** (formerly owned by **BEALL, STILES & Co.**), and as sole agents for

PEPPER DISTILLERY, Franklin County, Ky.

BEARGRASS DISTILLERY, Jefferson County, Ky.

S. THOMPSON & CO., DISTILLERY, Larue Co., Ky.

E. C. BERRY DISTILLERY, Daviess County, Ky.

LAVAL DISTILLERY, Jefferson County, Ky.

we are prepared to contract for the product of these distilleries, in bond or tax paid.

To physicians and druggists who buy for cash, or on short time, we are prepared to offer Whiskies which for *age* and *quality* are unsurpassed, and at the *lowest prices* of the market. All inquiries will be promptly responded to, and samples forwarded when requested.

Soliciting your orders, we are respectfully,

NEWCOMB, BUCHANAN & CO.

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BREMAKER, MOORE & CO.

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AND


WAWASA PAPER MILLS,

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HIGHEST CASH PRICE PAID FOR LINEN RAGS AND ALL KINDS
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 The paper on which "THE AMERICAN PRACTITIONER" is printed, is
made by Bremauer, Moore & Co.

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WHOLESALE AND RETAIL
DRUGGISTS

COR. SECOND AND GREEN, AND } LOUISVILLE.
COR. FIRST AND JEFFERSON STS. }

We have been appointed General Agents for the sale of **SURGICAL** and **ORTHOPEDICAL INSTRUMENTS** manufactured by OTTO & REYNDERS, 64 Chatham Street, New York. We will keep on hand a general assortment of their instruments, which for quality can not be excelled. We will be able to furnish physicians with any instrument they may desire, if not in our stock, within six days from receipt of order. Directions for measurements for Apparatus for Deformities, Splints, Stockings, &c., furnished on application. Goods guaranteed to give satisfaction. Orders addressed to us will receive prompt attention.

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We also keep on hand a well-selected stock of **DRUGS AND MEDICINES**, **WARNER'S SUGAR-COATED PILLS**, &c., and are prepared to furnish physicians with all the latest pharmaceutical preparations and novelties.

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THE LATEST IMPROVEMENTS
And new inventions on hand and received constantly from our Agents in Europe.
VS, 1-17

CODMAN & SHURTLEFF'S APPARATUSES FOR ATOMIZATION OF LIQUIDS FOR INHALATION LOCAL ANÆSTHESIA, &c.

By the Atomizer any medicated liquid may be converted into the finest spray. In this state it may be inhaled into the smallest air-cells, thus opening a new era in the treatment of all diseases of the throat and lungs.

The Complete Steam Atomizer for Inhalation, &c.

(See Fig. 15.)



Fig. 15. Pat. Mar. 24, 1868 and Mar. 16, 1869.

The waste-cup, medication-cup and lamp are held in their places in such a manner that they can not fall out when the apparatus is carried or used over a bed or otherwise. All its joints are hard soldered. It can not be injured by exhaustion of water, or any attainable pressure of steam. It does not throw sprits of hot water to frighten or scald the patient. Is compact and portable; occupies space of one sixth cubic foot only; can be carried from place to place without removing the atomizing tubes or the water; can be unpacked and repacked without loss of time. Will render the best service for many years, and is cheap in the best sense of the word.

PRICE..... \$6.00
Brass parts nickel-plated, additional..... 2.50
Neatly made, strong, black-walnut box, with convenient handle, additional, 2.50

Shurtleff's Atomizing Apparatus. (See Fig. 5.)



Fig. 5. Patented March 24, 1868.

accompanied with directions for use. Every Steam Apparatus is tested with steam at very high pressure. Each apparatus is carefully packed for transportation, and warranted perfect. Also,

HAND BALL APPARATUS (Fig. 5, without shield), with two glass Tubes.....\$3.50
THE BOSTON ATOMIZER, with two glass Atomizing Tubes..... 2.50
THE TREMONT ATOMIZER, with two glass Atomizing Tubes..... 2.00
THE UNIVERSAL ATOMIZER, with metal Tube..... 1.50
GLASS TUBES to fit any of our apparatus, warranted perfect..... .25
NICKEL PLATED TUBES, for Local Anæsthesia and for Inhalation, each..... 75
RHIGOLENE, for Local Anæsthesia, best quality, packed..... 1.00
NASAL DOUCHE, for treating diseases of the Nasal Cavity, eight different varieties, each with two Nozzles, packed..... \$1.20, 1.50, 1.75, 2.00, and 3.50

N. B. To save collection expenses, funds should be sent with the order, either in form post-office order, or registered letter.
or complete illustrated Price-list of Apparatus, Tubes, &c., see Pamphlet.)

It consists of the spear-shaped brass boiler A, steam outlet-tube B, with packing-box C formed to receive rubber packing through which the atomizing tube D passes, steam-tight, and by means of which tubes of various sizes may be tightly held against any force of steam by screwing down its cover while the packing is warm; the safety-valve E, capable of graduation for high or low pressure by the spring or screw in its top, the non-conducting handle F, by which the boiler may be lifted while hot, the medication-cup and cup-holder G, the support H, iron base I, the glass face-shield J, with oval mouth-piece connected by the elastic band K with the cradle L, whose slotted staff passes into a slot in the shield-stand M, where it may be fixed at any height or angle required by the mill-screw N.

For Inhalation, and, with suitable tubes, for Local Anæsthesia, and for making direct local applications of atomized liquids for a great variety of purposes. (See our pamphlet.)

The most desirable hand apparatus. Rubber warranted of very best quality. Valves imperishable—every one carefully fitted to its seat, and work perfectly in all positions. The Bulbs are adapted to all the Tubes made by us for Local Anæsthesia in Surgical Operations, Teeth Extraction, and for Inhalation. PRICE.....\$4.00

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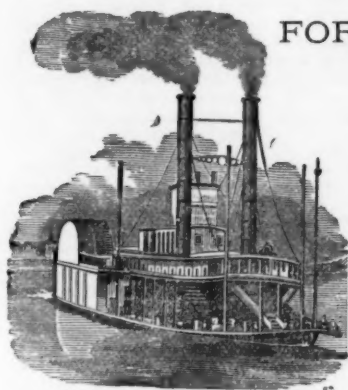
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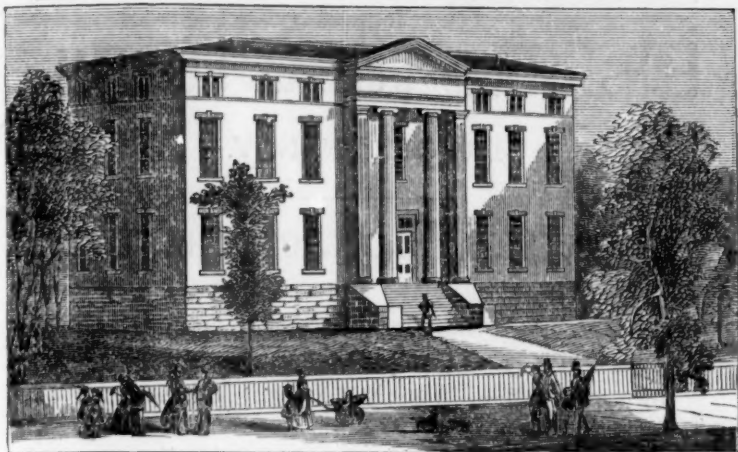
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